CD Stereo Radio Recorder AZ8420/00/01/05/10/17

Service
Service
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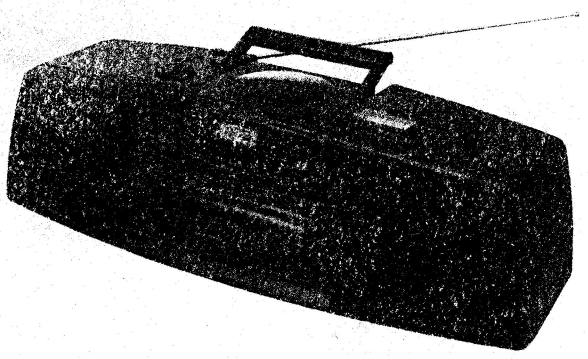

Service Manual

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"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

CLASS 1
LASER PRODUCT
3122 110 03420

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PHILIPS

PHILIPS

PCS 63 484

SPECIFICATION

GENERAL

Mains voltage		:	220V for -/00 240V for -/05 220V - 240V for -/01/10 120V for -/17
Mains selection/setting		:	Serviceable: Set at 120V for -/17 Set at 220V for -/00 Set at 240V for -/05 Switchable Set at 220V - 240V for -/01/10
Mains frequency		:	50Hz for -/00/05 60Hz for -/01/10/17
Battery		:	12V (R20 x 8)
Power consumption		:	24W max.
Dimension (W x D x H)		:	630 x 190 x 234mm
Weight		:	5.5kg

TUNER : FM SECTION

Tuning range		:	87.5MHz - 108MHz
Tuning grid		:	100kHz for -/00/05/17 50kHz for -/01/10
IF frequency		:	10.7MHz
Sensitivity at 26dB S/N		:	< 5.6µV
Selectivity at 600kHz bandwidth		:	> 20dB
IF rejection		:	> 50dB
Image rejection		:	> 20dB

TUNER : AM SECTION

Tuning range	MW	:	522kHz - 1611kHz for -/00/01/05/10 530kHz - 1710kHz for -/17
	LW	:	153kHz - 279kHz for -/00/05
Tuning grid	MW	:	10kHz for -/00/05/17 9kHz for -/01/10
	LW	:	10kHz for -/00/05
IF frequency		:	450kHz ± 1kHz
Sensitivity at 26dB S/N	MW	:	< 3.6mV/M for -/00/05 < 4.0mV/M for -/01/10/17
	LW	:	< 6.0mV/M for -/00/05
Selectivity at 18kHz bandwidth	MW	:	> 16dB
	LW	:	> 20dB for -/00/05
IF rejection	MW	:	> 24dB
	LW	:	> 26dB for -/00/05
Image rejection	MW	:	> 28dB
	LW	:	> 30dB for -/00/05

AMPLIFIER

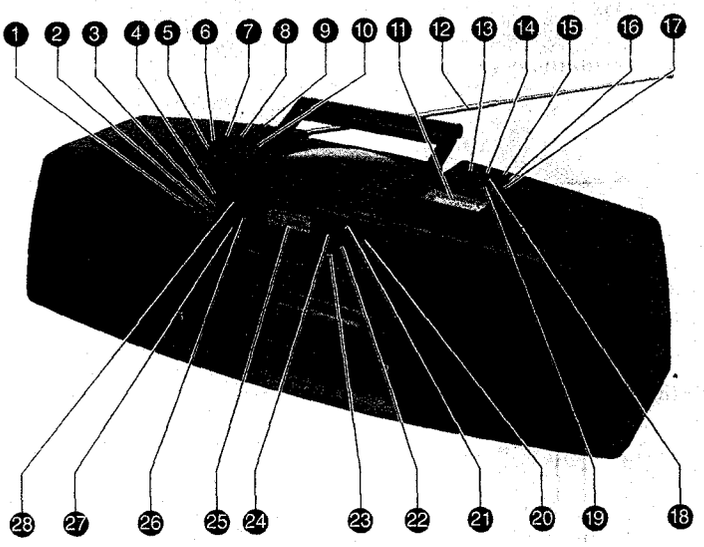
Output power at 10% distortion:	Mains	:	2 x 2.6W -1dB (Tape Mode) 2 x 2.3W -1dB (CD Mode) 2 x 3.0W -1dB (Radio Mode)
	Battery	:	2 x 2.8W -1dB
Speaker impedance		:	2 x 5Ω
Frequency response within +7dB/-3dB		:	100Hz - 8kHz
DBB slider		:	+6dB at 100Hz
Tone control		:	-10dB at 10kHz
Microphone input sensitivity		:	< 0.8mV at 10kΩ
Headphone output at 32Ω		:	15mW

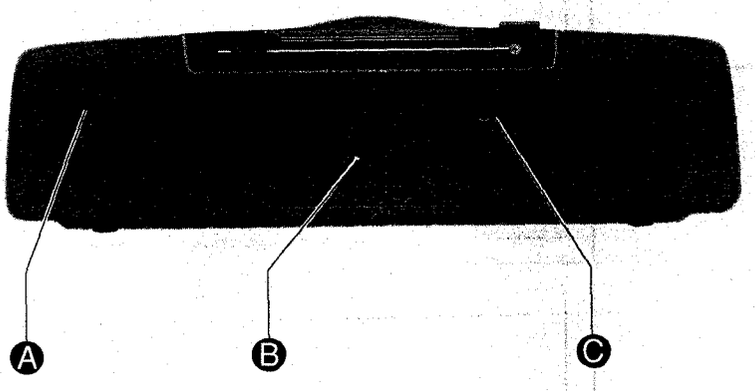
CASSETTE RECORDER

Number of tracks		:	2 x 2 stereo
Tape speed		:	4.76 cm/sec ± 3% 2 x 4.76 cm/sec ± 5%
Wow and flutter		:	< 0.45%
Fast-wind time C60		:	120 sec
Bias system:	AM	:	DC bias
	Others	:	65kHz ± 10kHz
Recording playback frequency response within -8dB		:	250Hz - 2kHz (AM) 250Hz - 6.3kHz (others)
Signal to Noise ratio:	AM rec	:	> 25dB
	FM rec	:	> 40dB
	Dubbing	:	> 37dB

COMPACT DISC

Frequency response within +2dB/-4dB	:	20Hz - 16kHz
Signal/Hiss ratio	:	> 80dB
Distortion at 1kHz	:	< 0.5%
Channel difference at 1kHz	:	< 2dB
Channel crosstalk at 1kHz	:	> -50dB
De-emphasis	:	0 or 15/50 uS (Switched by subcode on the disc)





CONNECTIONS AND CONTROLS

Controls

1.	LED FM Stereo	6540
2.	LED High Speed	6421
3.	LED DBB	6411
4.	LED Power	6542
5.	Knob Volume	3500
6.	Button High Speed	1430
7.	Button Power	1401
8.	Button DBB	1421
9.	Knob Tone	3510
10.	Knob Mode	1500
11.	Tuner - LCD Display	1400
12.	Telescopic Aerial	
13.	Tuner Mono	1408
14.	Tuner Memory	1409
15.	Tuner Band	1406
16.	Tuner Up	1410
17.	Preset Up	1411
18.	Tuning Down	1407
19.	Preset Down	1412
21.	CD - Play	1914
22.	CD - Next	1915
23.	CD - Previous	1913
24.	CD - Stop	1912
25.	CD - LCD Display	1901
26.	CD - Memory	1911
27.	CD - Mode	1916
28.	CD - Intro	1917

Connections

20.	Headphone Socket	1305
A.	Mains Socket	1005
B.	Battery Cover	
C.	Microphone Socket	1551

SERVICE TEST PROGRAM

Following can be tested with testprogramme 1:

- Displays
- Sledge motor
- Focus servo

Operation Sequence	Display shows	Remarks	In case of problem check
Step 1 Insert any disk in CD compartment and shut CD door. To start test program1, Hold "Memory" & "Previous" depress while setting mode switch to "CD"	—		
Step 2 Press "Play"	—	Focus on, Disk motor on	Focus Servo cct
Step 3 Press "Play"	— —	Switch Slide + Track servo on	Sledge motor and driver cct for sledge motor
Step 4 Press "Next"	— —	Jump ≈ 16 tracks forward	
Press "Previous"	— —	Jump ≈ 16 track backward	
Press " Play"	MEMORY SCAN 1111 1111:1111 SHUFFLE REPEAT 1 ALL	Display check every 2nd line activated	
Press " Play" again	HOLD MEMORY SCAN 8888:88 SHUFFLE PAUSE REPEAT 1 ALL	Display check every line	connection Display
Press "Stop" to get back in step1. Power off/Switch to Radio to exit Service mode			

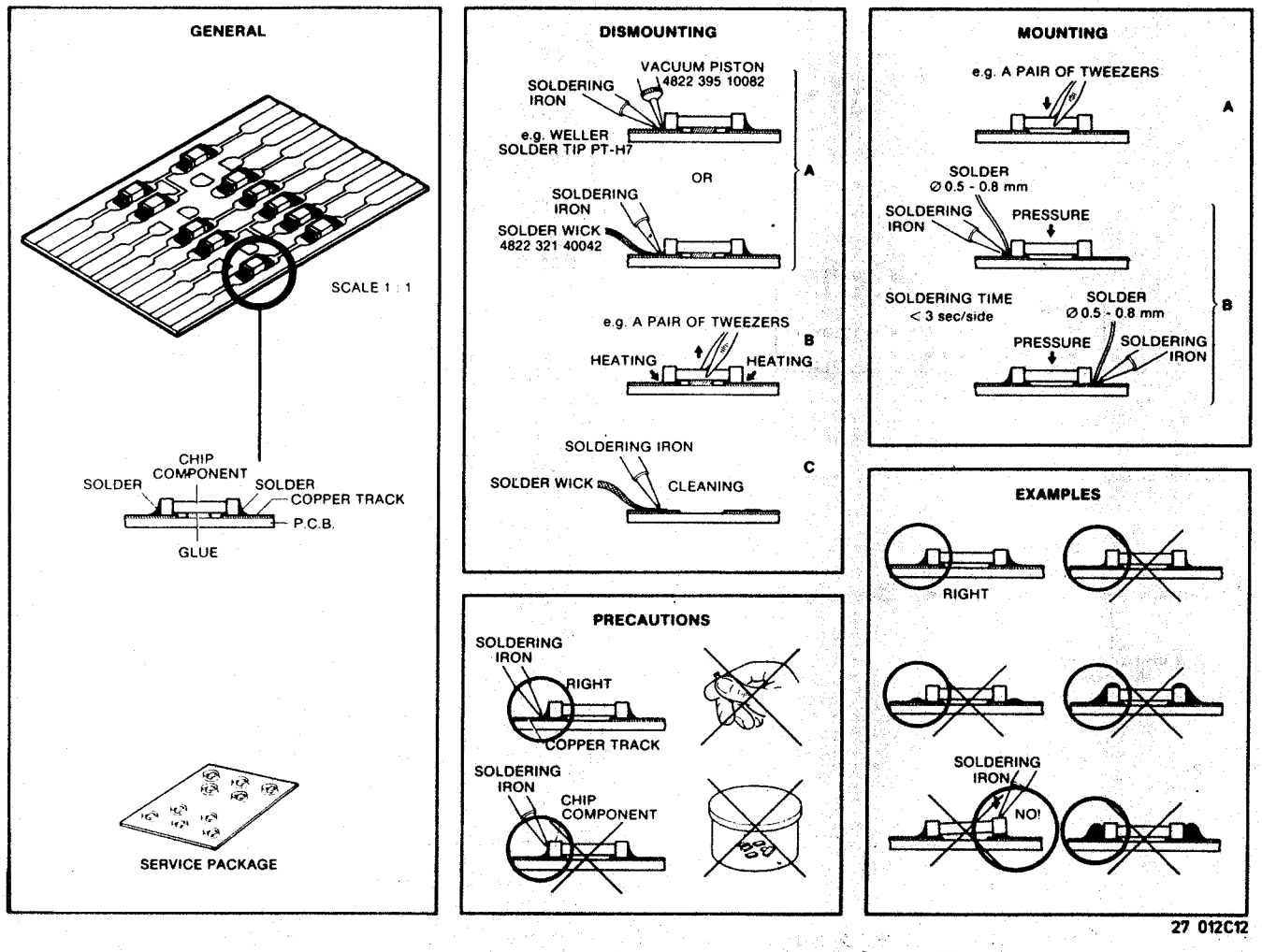
TAPE DECK ADJUSTMENT

ADJUSTMENT	CASSETTE	SK..	PLAYBACK RECORD	RECORD	MEASURE ON	READ ON	ADJUST WITH	ADJUST TO
Azimuth	10 kHz SBC 420*	Tape	Play	-	1305	mV-meter	Left hand screw Play head	Max
		Tape	-	Play	1305	mV-meter	Left Hand screw Play head	L-R
Motor Speed (Normal)	3150 Hz SDC 420*	Tape	Play	-	1305	Wow and Flutter meter	Preset in motor	**a
		Tape	-	Play	1305	Wow and Flutter meter	-	
Motor Speed (High)	3150 Hz SBC 420*	Tape HSD	Record	Play	1305	Frequency counter	-	6.3 kHz ±0.3 kHz

* SBC 420 : 4822 397 30071

** a The maximum permissible speed deviation is 3%. Moreover, the wow and flutter value can be read. This value should not exceed 0.30%.

HANDLING CHIP COMPONENTS



27 012C12

ESD

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(F)
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les piéces de rechange identiques à celles spécifiées.

(NL)
Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Original zustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

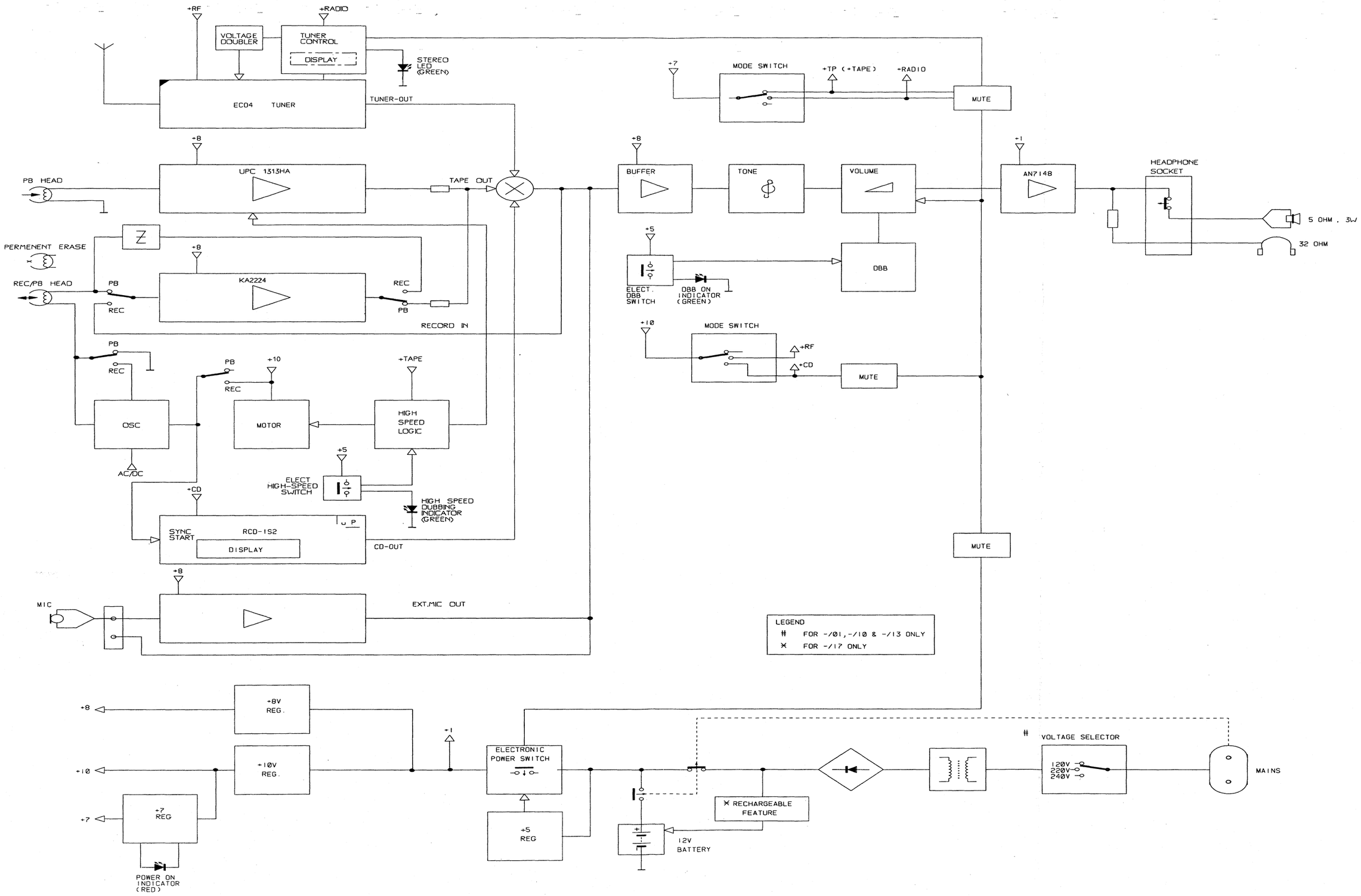
(DK) Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse for stråling.

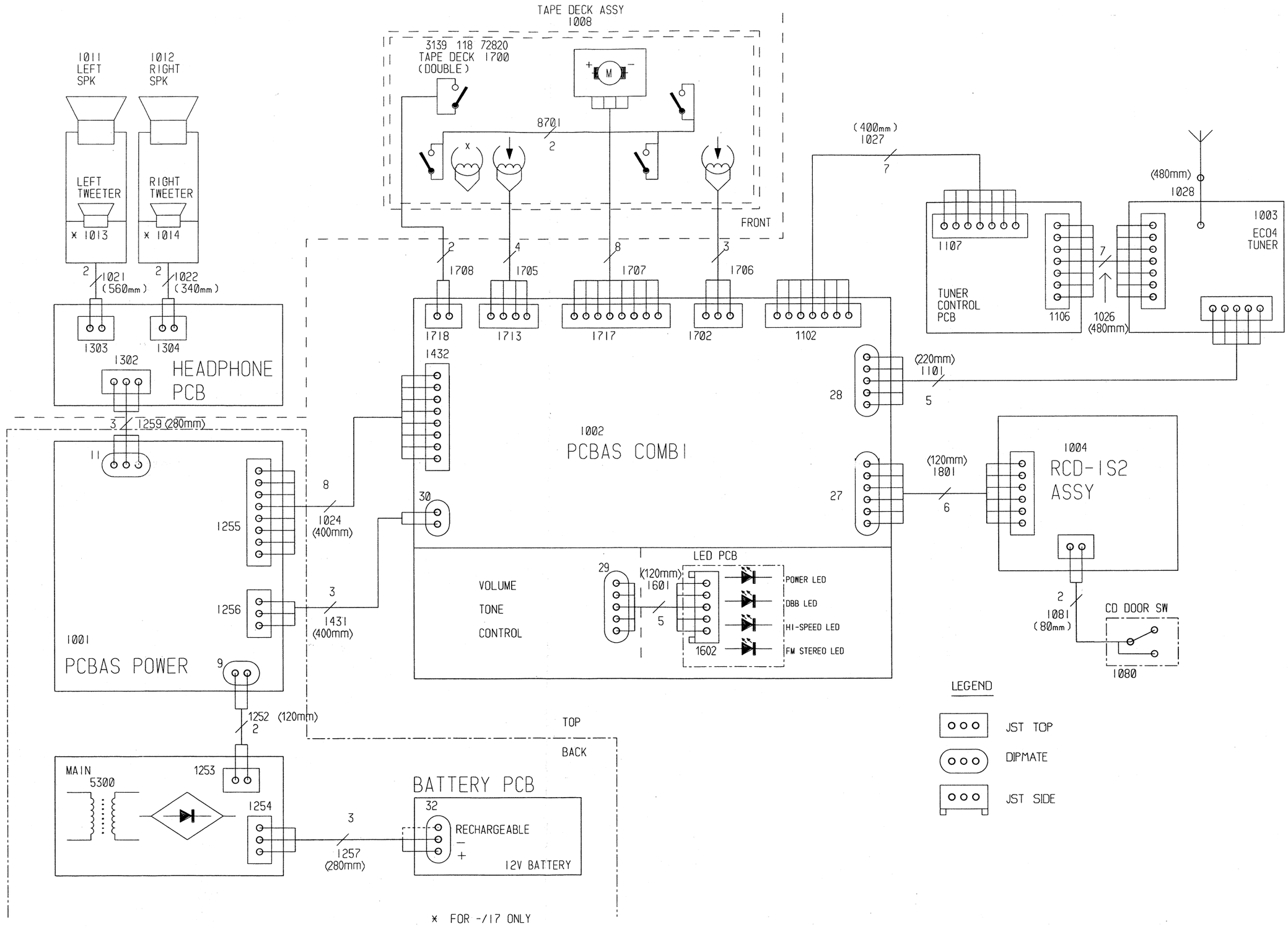
(GB) Warning !

Invisible laser radiation when open.
Avoid direct exposure to beam.

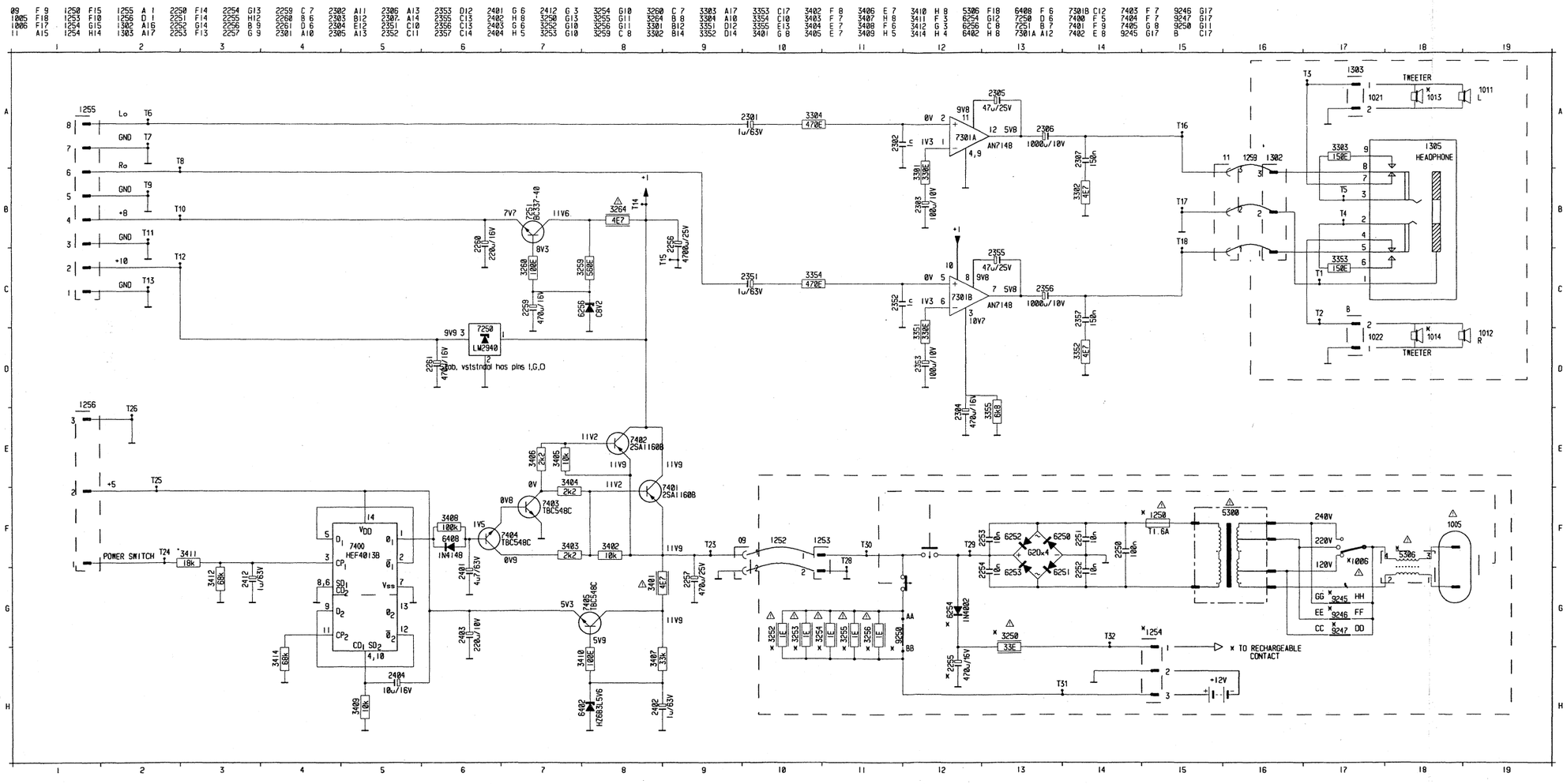
BLOCK DIAGRAM



WIRING DIAGRAM



POWER BOARD CIRCUIT DIAGRAM

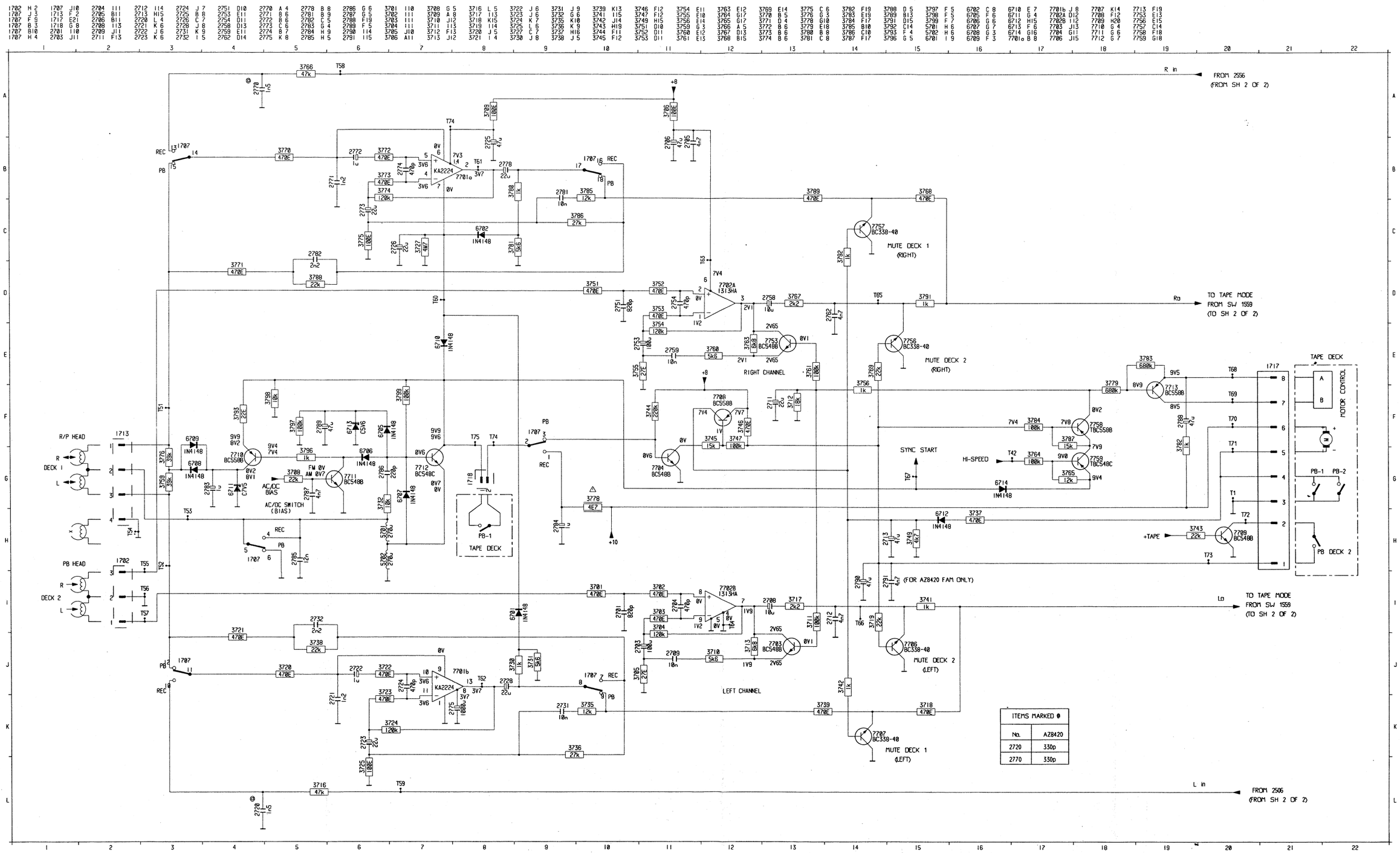


ITEMS MARKED × \ VERSION	-/00	-/01	-/05	-/13	-/17
1013 1014 1254 1255 1256 3252-3256 6254 9247	-	-	-	-	YES
1006	-	YES	-	YES	-
1250	T1.25A	T1.25A	T1.25A	T1.25A	T1.6A
9245	-	-	YES	-	-
9246	YES	-	-	-	-
9250	YES	YES	YES	YES	-
5306	-	-	-	-	-

NOTE:

IF ITEM 5306 NOT IN USED
2 JUMPERS IS ADDED ALONG
PIN 1 TO PIN 2
PIN 3 TO PIN 4

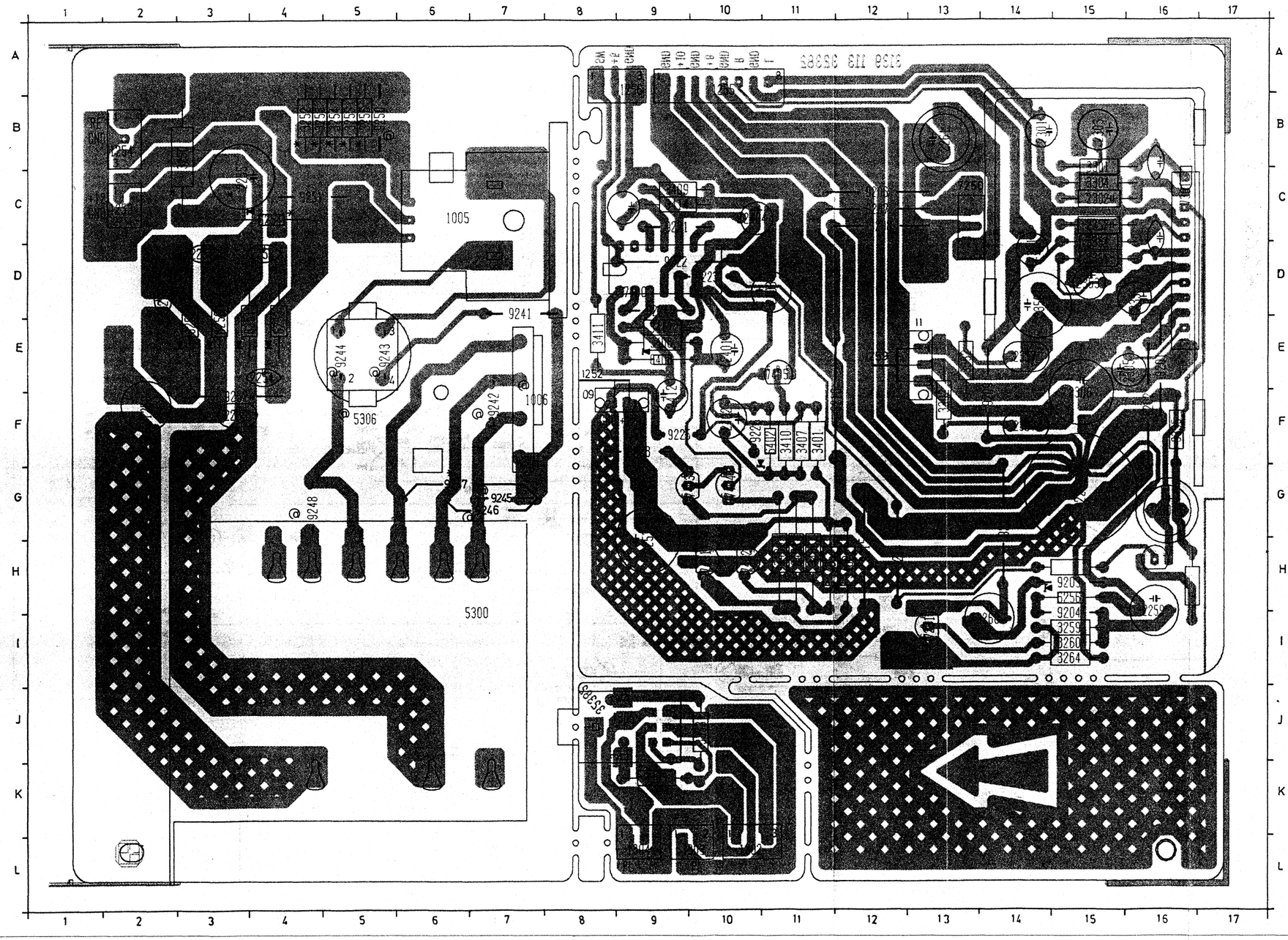
COMBI BOARD CIRCUIT DIAGRAM I



ITEMS MARKED @	
No.	AZ8420
2720	330p
2770	330p

POWER BOARD COMPONENT LAYOUT

09	E8	1255	A10	2251	D3	2260	I14	2307	F14	2402	F10	3255	B5	3304	C15	3401	F11	3409	C9	6251	E3	7251	I13	7405	E11	9209	F14	9224	D9	9246	G6
011	E13	1256	A9	2252	D4	2261	B13	2351	D14	2403	D11	3256	B5	3351	D15	3402	H12	3410	F11	6252	E3	7301	C16	9201	E16	9213	G14	9225	F9	9247	G6
1005	C6	1259	E12	2253	D2	2301	B14	2352	C15	2404	C10	3259	I15	3352	E13	3403	H11	3411	E8	6253	E4	7302	H16	9202	F16	9214	H12	9226	F10	9248	G4
1006	F6	1302	L10	2254	E4	2302	C15	2353	D15	2412	F9	3260	I15	3353	J10	3404	H11	3412	E9	6254	C4	7400	D9	9203	H15	9215	H12	9228	F9	9250	B5
1250	F2	1303	L10	2255	C3	2303	B15	2355	D16	3250	B3	3264	I15	3354	C15	3405	H12	3414	C9	6256	H15	7401	H10	9204	I15	9216	F12	9241	D6	9251	C4
1252	E8	1304	L9	2256	G15	2304	G16	2356	D14	3252	B4	3301	C15	3355	F16	3406	H11	5300	I6	6402	F11	7402	H10	9206	C12	9221	C9	9242	F6	9252	F3
1253	C2	1305	J9	2257	H9	2305	E16	2357	E14	3253	B4	3302	F13	3356	H17	3407	F11	5306	F5	6408	E9	7403	G10	9207	C12	9222	D9	9243	E5		
1254	B2	2250	F3	2259	H16	2306	F15	2401	E10	3254	B5	3303	K9	3357	H15	3408	E9	6250	E3	7250	C13	7404	G10	9208	C12	9223	D10	9245	G6	9201	E5



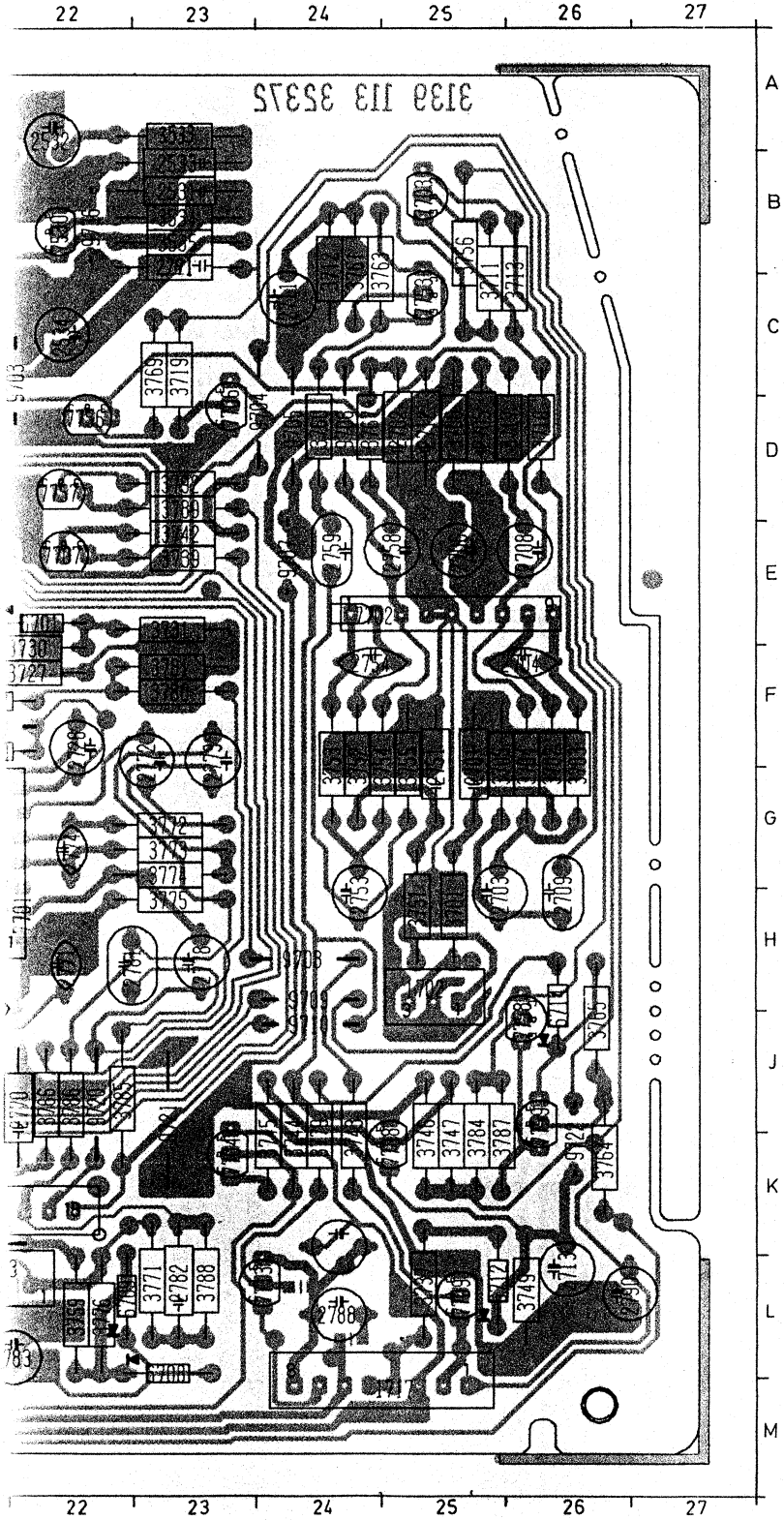
VERSIONS / ITEM MARKED @	-/00	-/01	-/05	-/13	-/17
9242	–	YES	–	–	–
9243 9244	YES	YES	YES	YES	YES
9245	–	–	YES	–	–
9246	YES	–	–	–	–
9248	YES	YES	YES	–	YES
9250	YES	YES	YES	YES	–
5306	–	–	–	–	–
1250	T1.25A	T1.25A	T1.25A	T1.25A	T1.6A
1006	–	YES	–	YES	–

* FOR -/17 ONLY

COMBI BOARD COMPONENT LAYOUT I

| | | |

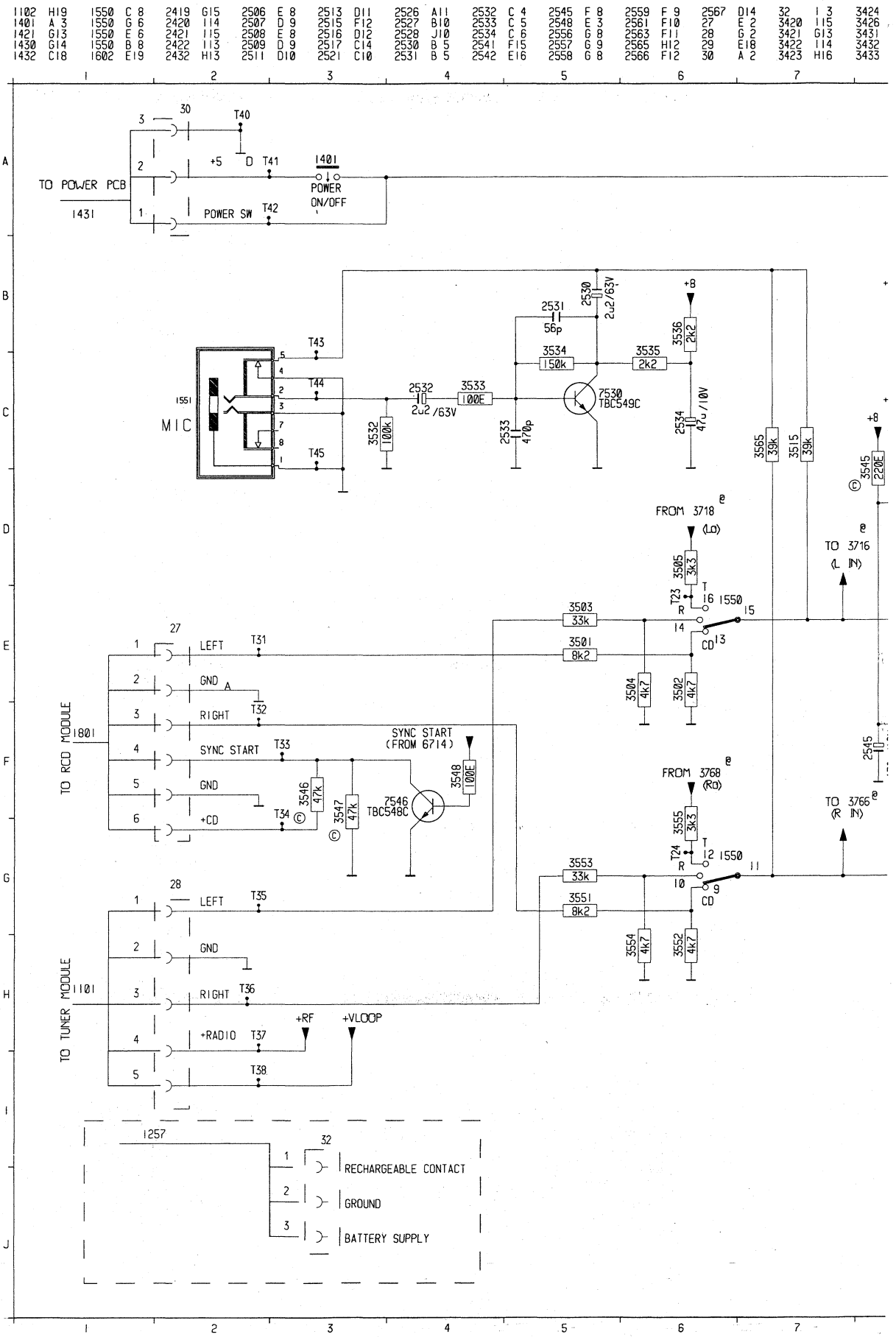
E8	9669	G6	9692	L4	9714	H19	9745	D20	9762	F16	9790	C16	9595 A13
F7	9670	G6	9693	L4	9715	H18	9746	D20	9766	G16	9791	C16	9736 B22
F7	9671	G6	9694	L4	9716	L19	9747	D20	9767	G16	9792	C16	3765 J26
F7	9675	G6	9695	L4	9717	K20	9748	D19	9768	H16	9793	D16	6541 K16
L9	9676	G6	9703	D22	9718	K21	9750	E19	9770	L17	9794	D16	7405 J8
H9	9677	G7	9704	D24	9720	K22	9751	E19	9771	L16	9795	D16	
G8	9680	F5	9705	D24	9721	K23	9752	E18	9772	L16	9796	D16	
G8	9681	F4	9706	D25	9722	K23	9753	E18	9773	L16	9797	D16	
G8	9682	G5	9707	E24	9724	L22	9754	E17	9775	K16	9798	E16	
D6	9685	H5	9708	H24	9725	L20	9756	F19	9776	K16	9799	E16	
D5	9686	H5	9709	L24	9726	M20	9757	F19	9777	L16	2464	G4	
E6			9710	L24			9758	F18	9778	L16	2467	L8	
F6	9688	L4	9711	H22	9729	L20	9759	F18	9779	L16	2791	B23	
F6	9690	K5	9712	H22	9737	C21	9760	F18	9785	C18	6475	H4	
F6	9691	L4	9713	G22	9719	K22	9761	G18	9786	C18	9591	C14	



NOTE

@ FOR -/01 ONLY

COMBI BOARD CIRCUIT DIAGRAM II



| | | |

COMBI BOARD COMPONENT LAYOUT I

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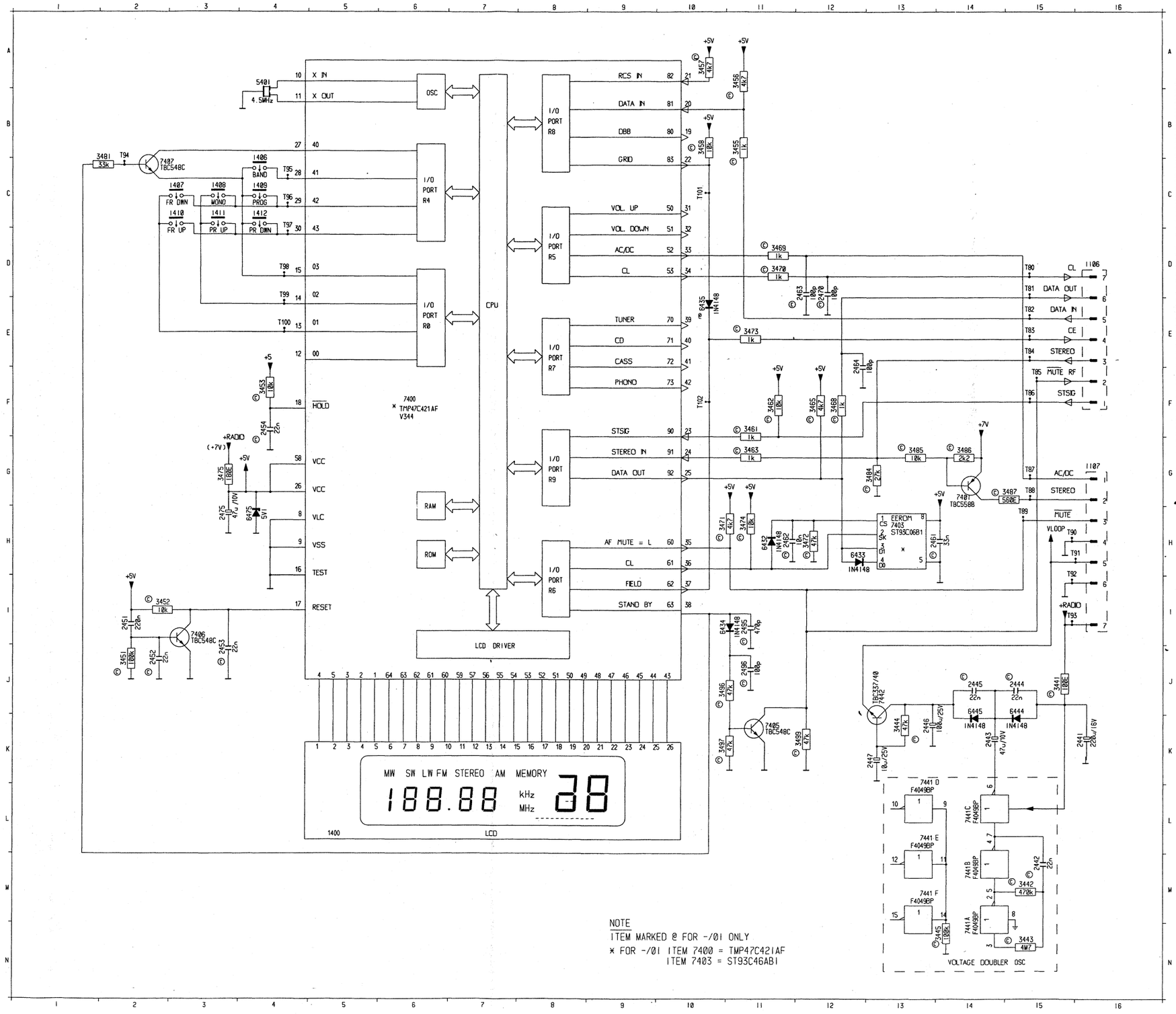
| | | |

COMBI BOARD CIRCUIT DIAGRAM III

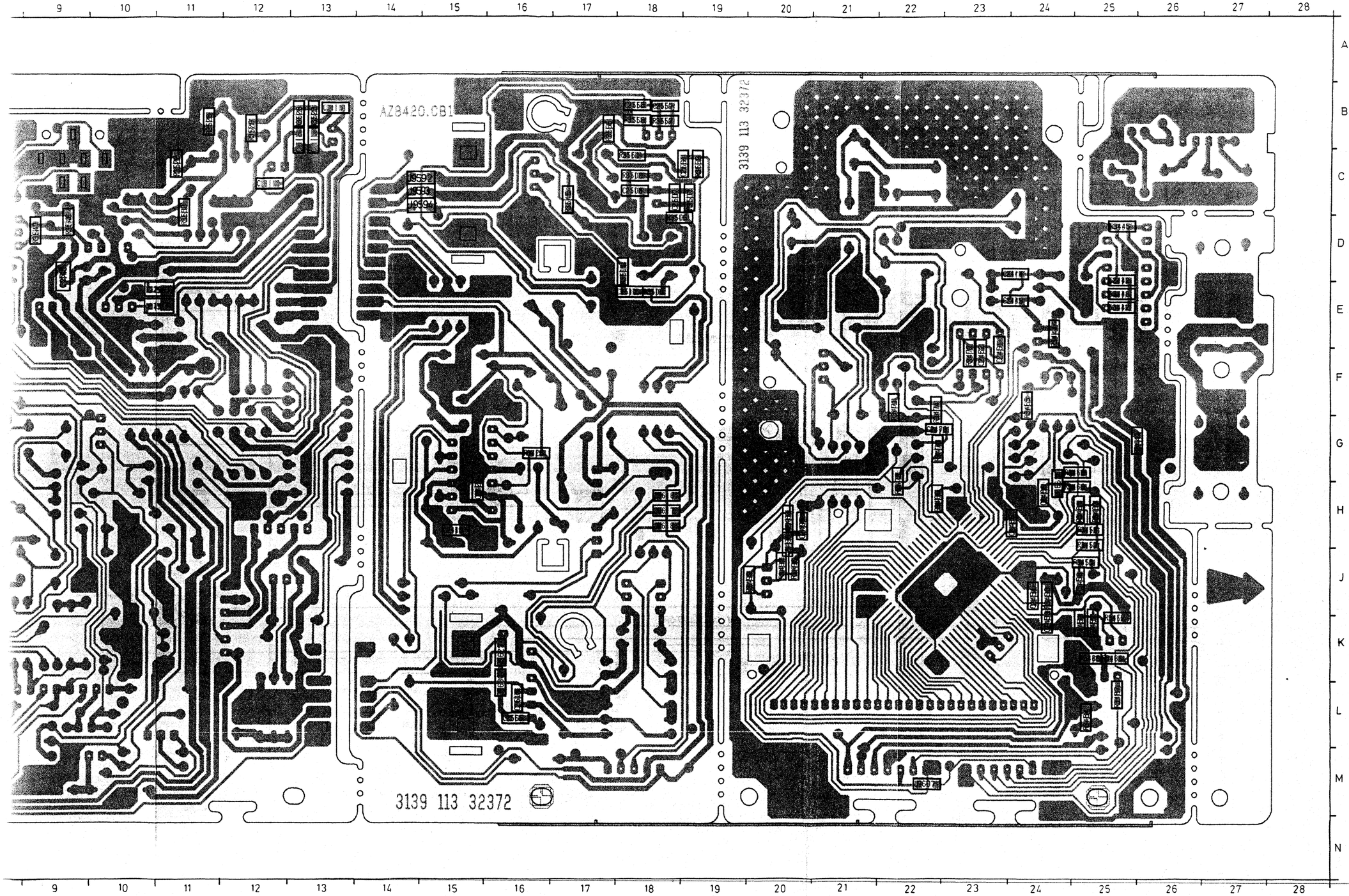


NOTE
ITEM MARKED @ FOR -/01 ONLY
* FOR -/01 ITEM 7400 = TMP47C421AF
ITEM 7403 = ST93C46AB1

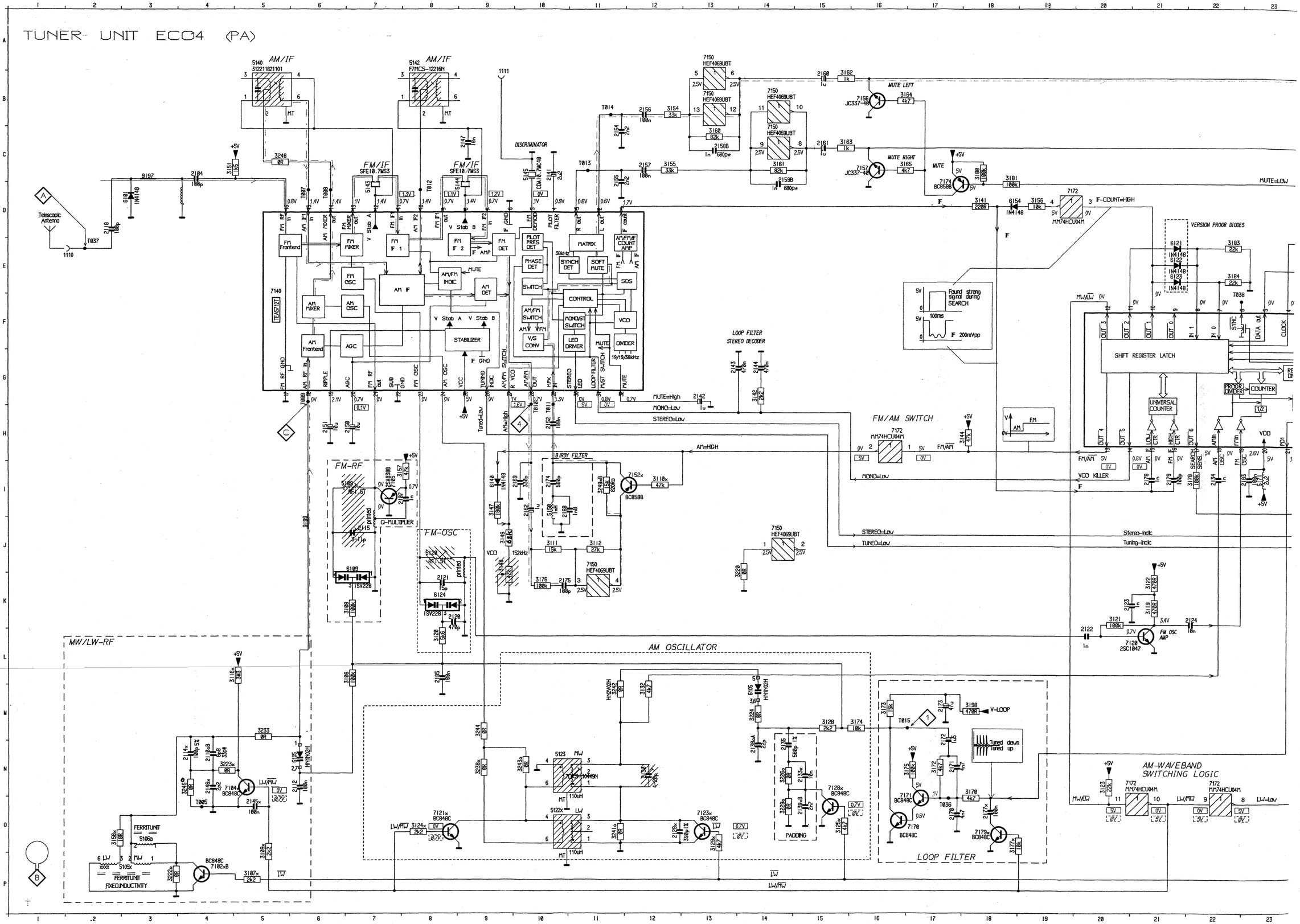
COMBI BOARD COMPONENT LAYOUT II

| | | |

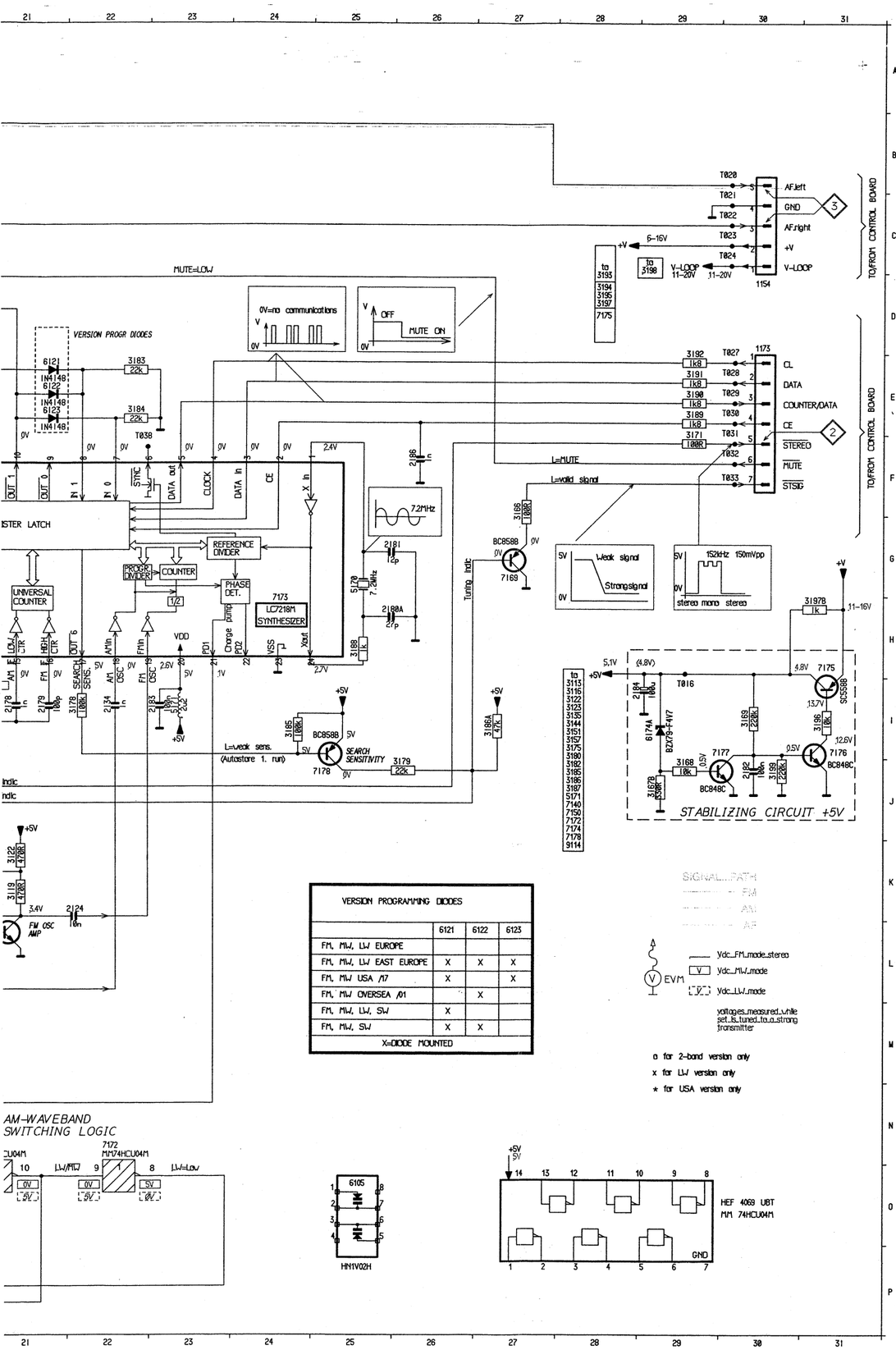
51	K25	3455	J25	3461	H25	3465	F24	3471	F22	3484	L25	3496	J20	3506	D19	3511	D18	3528	B13	3546	C9	3558	B18	3783	M4	9629	K16	9593	C14
52	K25	3456	J25			3468	G25	3472	F23	3485	K26			3507	C19	3522	C11	3529	B12	3547	D9	3559	C19	9616	H18	9630	L16	9594	C14
53	J24	3457	H25	3462	H25	3469	H23	3473	H22	3486	K25	3497	J20	3508	C18	3523	B13	3530	C11	3556	B17	3561	C18	9617	H18	9662	H24	9697	M22
		3458	H25	3463	H25	3470	G23	3474	F22	3487	L26	3499	J20	3509	E18	3526	B11	3545	C17	3557	B18	3782	C5	9618	H18	9592	C14		



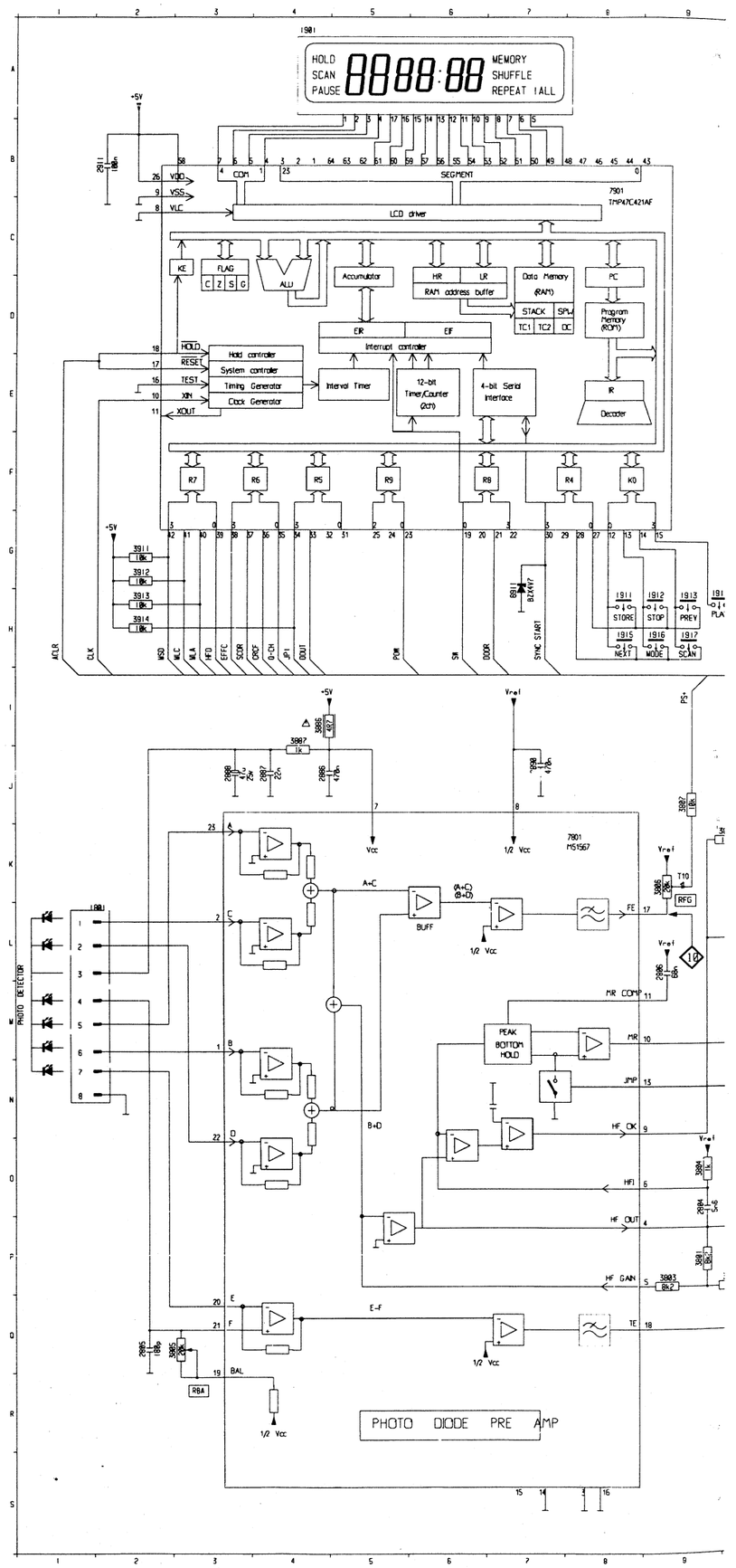
TUNER BOARD CIRCUIT DIAGRAM



RCD BOARD CIRCUIT DIAGRAM



VERSION PROGRAMMING DIODES			
	6121	6122	6123
FM, MW, LW EUROPE			
FM, MW, LW EAST EUROPE	X	X	X
FM, MW USA /17	X		X
FM, MW OVERSEA /01		X	
FM, MW, LW, SW	X		
FM, MW, SW	X	X	
X=DIODE MOUNTED			



ALL RESISTORS ARE

UNLESS OTHERWISE STATED

ITEM MARKED @ 3822 IS USED ONLY WITH
7861 IS TDA1543A

DC VOLTAGES MEASURED IN POSITION CD-PLAY

SERVO CONTROLLER

LOGIC CONTROL

PHOTO DIODE PRE AMP

MEMORY SHUFFLE REPEAT 1ALL

TDA1543A

TDA7073

TDA7073

TDA7315AM2

TMP47C474F

LM2940CT-5V

MC145567

MC145568

MC145567P

PLM4264

BU4066

BU4053

BU4066

BU4053

BU4066

BU4053

TUNER BOARD COMPONENT LAYOUT

1110 B 1
1111 E 1
1154 E 5
1179 E 6
2104 C 1
2115 C 2
2118 A 1
2124 C 4
2129x B 6
2130 B 5
2134 C 6
2135 B 4
2141 D 2
2142 C 4
2150 C 2
2151 C 2
2156 D 3
2157 E 3
2160 E 3
2161 E 4
2162 D 3
2172 C 6
2173 C 6
2177x C 6
2178 C 4
2179 C 4
2184 D 5
3110 C 4
3120 B 3
3124x B 6
3132 B 5
3140 C 3
3151 D 1
3156 C 4
3162 E 4
3163 E 4
3164 E 4
3165 E 4
3170 C 6
3173 C 6
3174 C 5
3177x A 6
3181 D 5
3183 E 4
3189 D 6
3190 D 6
3191 D 6
3192 D 6
3196 D 4
3197 E 4
3198 D 6
5100 C 2
5120 C 3
5122x B 5
5123 B 5
5140 D 2
5142 D 3
5143 D 2
5144 D 2
5145 D 3
5146 D 3
5150 D 3
5170 D 6
5171 D 5
6101 A 2
6121 D 5
6122 D 5
6123 D 6
6140 D 4
6154 C 4
6174 D 4
7105 C 2
7120 C 4
7156 E 4
7157 E 4
7175 D 5
7176 D 5
9100 E 6
9101 E 5
9103 C 6
9105 C 4
9106 C 4
9107 C 5
9110 C 5
9115 D 5
9116 D 5
9119 C 5
9120 C 2
9122 B 4
9123 D 4
9124 E 1
9125 C 2
9126 B 4
9128 D 4
9129 C 4
9130 D 4
9132 C 3
9134 B 2
9199 B 3

1 2 3 4 5 6

ECO 4 TUNER BOARD / Component side view

A B C D E F

PA

o for 2-band version only
x for LV version only
* for USA version only

1 2 3 4 5 6

7150 D 3
7152x D 4
7169 C 6
7170 C 6
7171 C 6
7172 C 5
7173 D 6
7174 E 5
7176 D 4
7177 D 4
7178 C 5
7179x B 6
3247 B 2
3248 D 2
3249x D 4
3297 B 5
3199 D 4
3171 E 5
3172 C 6
3175 C 6
3176 D 3
3178 C 6
3179 C 5
3180 E 5
3183 D 5
3184 D 6
3185 C 5
3186 C 5
3188 C 6
3189 D 4
3197 E 5
3198 E 5
3199 E 3
3200 E 3
3201 E 3
3202 E 3
3203 E 3
3204 E 3
3205 E 3
3206 E 3
3207 E 3
3208 E 3
3209 E 3
3210 E 3
3211 E 3
3212 E 3
3213 D 5
3220 E 2
3222o A 4
3223x A 3
3224 B 4
3226o B 4
3228 D 5
3229o B 4
3233 B 4
3237 B 5
3238x B 5
3240 E 5
3241o B 6
3242 B 5
3243o B 5
3244 B 4
3245x A 3
3246 C 2
3120x B 6
3142 C 4
3159 D 4
3144 C 5
3147 C 4
3149 C 3
3152 E 3
3154 E 3
3156 E 3
3158x A 4
3160 E 3
3161 E 3
3166 E 5
3167 D 5
3168 D 4
3169 D 4
3171 E 5
3172 C 6
3175 C 6
3176 D 3
3178 C 6
3179 C 5
3180 E 5
3183 D 5
3184 D 6
3186 C 5
3188 C 6
3189 D 4
3197 E 5
3198 E 5
3199 E 3
3200 E 3
3201 E 3
3202 E 3
3203 E 3
3204 E 3
3205 E 3
3206 E 3
3207 E 3
3208 E 3
3209 E 3
3210 E 3
3211 E 3
3212 E 3
3213 D 5
3220 E 2
3222o A 4
3223x A 3
3224 B 4
3226o B 4
3228 D 5
3229o B 4
3233 B 4
3237 B 5
3238x B 5
3240 E 5
3241o B 6
3242 B 5
3243o B 5
3244 B 4
3245x A 3
3246 C 2
3107x A 5
3108 B 2
3109x A 5
3110x D 4
3111 D 3
3112 D 3
3114x B 3
3115x A 3
3116x A 3
3121 C 4
3122 C 4
3123 D 5
3125x B 4
3126 B 4
3127 B 4
3128 B 4
3129 B 4
3130 B 4
3131 B 4
3132 B 4
3133 E 5
3134 E 5
3135 E 5
3136 E 5
3137 E 5
3138 E 5
3139 E 5
3140 E 5
3141 E 5
2159 D 3
2143 C 3
2144 C 4
2145 C 4
2146x A 3
2147 D 3
2148 D 3
2149 D 3
2150 D 3
2151 D 3
2152 D 3
2153 D 3
2154 D 3
2155 D 3
2156 D 3
2157 D 3
2158 E 3
2159 E 3
2160 E 3
2161 E 3
2162 E 3
2163 E 3
2164 E 3
2165 E 3
2166 E 3
2167 E 3
2168 E 3
2169 E 3
2170 C 6
2171 B 6
2173 D 3
2174 D 3
2175 D 3
2176 D 3
2177 D 3
2178 D 3
2179 D 3
2180 D 3
2181 D 6
2182 D 4
2183 C 6
2185 B 3
2186 C 4
2187 C 4
2188 C 4
2189 C 4
2190 C 4
2191 C 4
2192 C 4
2193 C 4
2194 C 4
2195 C 4
2196 C 4
2197 C 4
2198 C 4

TUNER ALIGNMENT TABLE

TUNER Adjustment table (ECO 4 FM/MW- and FM/MW/LW - versions with AM-ferrite antenna)

Waverange	Input frequency	Input	Set tuned to	Adjust	Output	Scope / Voltmeter
VARICAP ALIGNMENT [1)]						
FM /00/01/05/10/17			108 MHz	5120	1	8V ± 0.2V
87.5 - 108MHz			87.5MHz	check		4.1V ± 0.5V
FM /14 East Europe			108 MHz	5120		8V ± 0.2V
65.81 - 108MHz			65.81 MHz	check		0.8V ± 0.4V
MW /01/17 2-band version, 10kHz grid			1710kHz	5123		9V±0.1V (7.5±0.7V)[1)]
530 - 1710kHz			530kHz	check		1V±0.4V (1.1±0.5V)[1)]
LW /00/05/10/14			279kHz	5122		8V±0.2V (7.5±1.5V)[1)]
153 - 279kHz			153kHz	check		1V±0.4V (1.1±0.5V)[1)]
MW /00/05/10/14			1611kHz	5123		8V±0.1V (7.5±0.5V)[1)]
522 - 1611kHz			522kHz	check		1V±0.4V (1.1±0.5V)[1)]
FM - RF						
FM /00/01/05/10/17	108MHz	A	108MHz	2115	3	MAX ↕
	87.5MHz		87.5MHz	5109		
FM /14 East Europe	108MHz	mod=1kHz Δf=22.5kHz	108MHz	2115		
	65.81MHz		65.81MHz	5109		
VCO						
FM	98 MHz, 1mV continuous wave	A	98MHz	3148	2	152kHz ± 1kHz
AM - IF						
MW	540kHz Δf = 10kHz as low as possible	100nF, 50E, C	540kHz	5142 5140	4	symmetrical and max height
AM - RF						
LW	198kHz	B	198kHz	5122	4	MAX
MW /00/05/10/14 3-band version	1494kHz	mod=1kHz 30% AM	1494kHz	2130		MAX ↕
	549kHz		549kHz	5123		
MW /01/17 2-band version	1500kHz		1500kHz	2130		
	550kHz		550kHz	5123		

* Use Service Test Program. By selecting the TUNER TEST, test frequencies will be stored as preset frequ. automatically.

[1)] Adjustment of AM-RF stage influences the varicap voltage. Therefore check if varicap voltage fulfils value stated within brackets after AM-RF adjustment.

repeat

ADJUSTMENT TABLE (RCD1.2)

CD-PART					
LASER CURRENT					
The APC (Automatic Power Control) for the laser diode is located on the disc drive and has been adjusted in the production line. Therefore for service purpose it is not intended to adjust the laser current.					
TRACKING OFFSET					
STOP		5 6	3809		Adjust to 0V DC ±10 mV
TRACKING BALANCE					
Service pos. 2 Display shows "-"		8 9	3805	Adjust to 0V DC offset	
TRACKING GAIN					
Play with Test-Disc 5 *	1250 Hz 100 mVrms	see Fig. 1	3838		CHX = 50 mV/DIV CHY = 50 mV/DIV Adjust according to FIG.3
FOCUS GAIN					
Play with Test-Disc 5	1000 Hz 300 mVrms	see Fig. 2	3806		CHX = 200 mV/DIV CHY = 200 mV/DIV Adjust according to FIG.3
FOCUS OFFSET					
Play with Test-Disc 5		9 11	3812		Max. HF
		9 10	Check only	DC voltage measured = Ux	
			3812	Adjust to $\frac{Ux}{2}$	

Test disc 5 4822 397 30096

* 2839 must be shorted during adjustment

FIG. 1

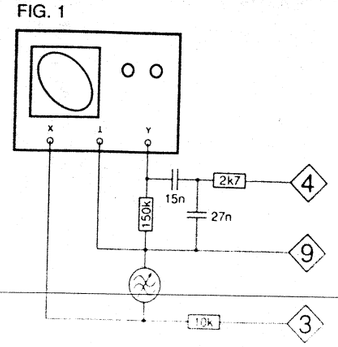


FIG. 2

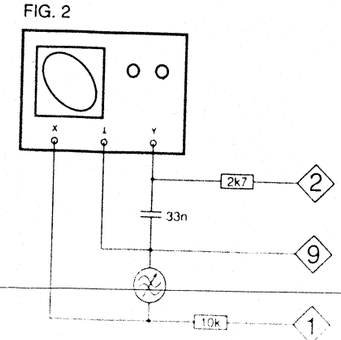
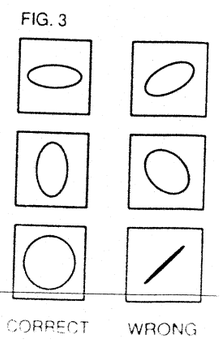
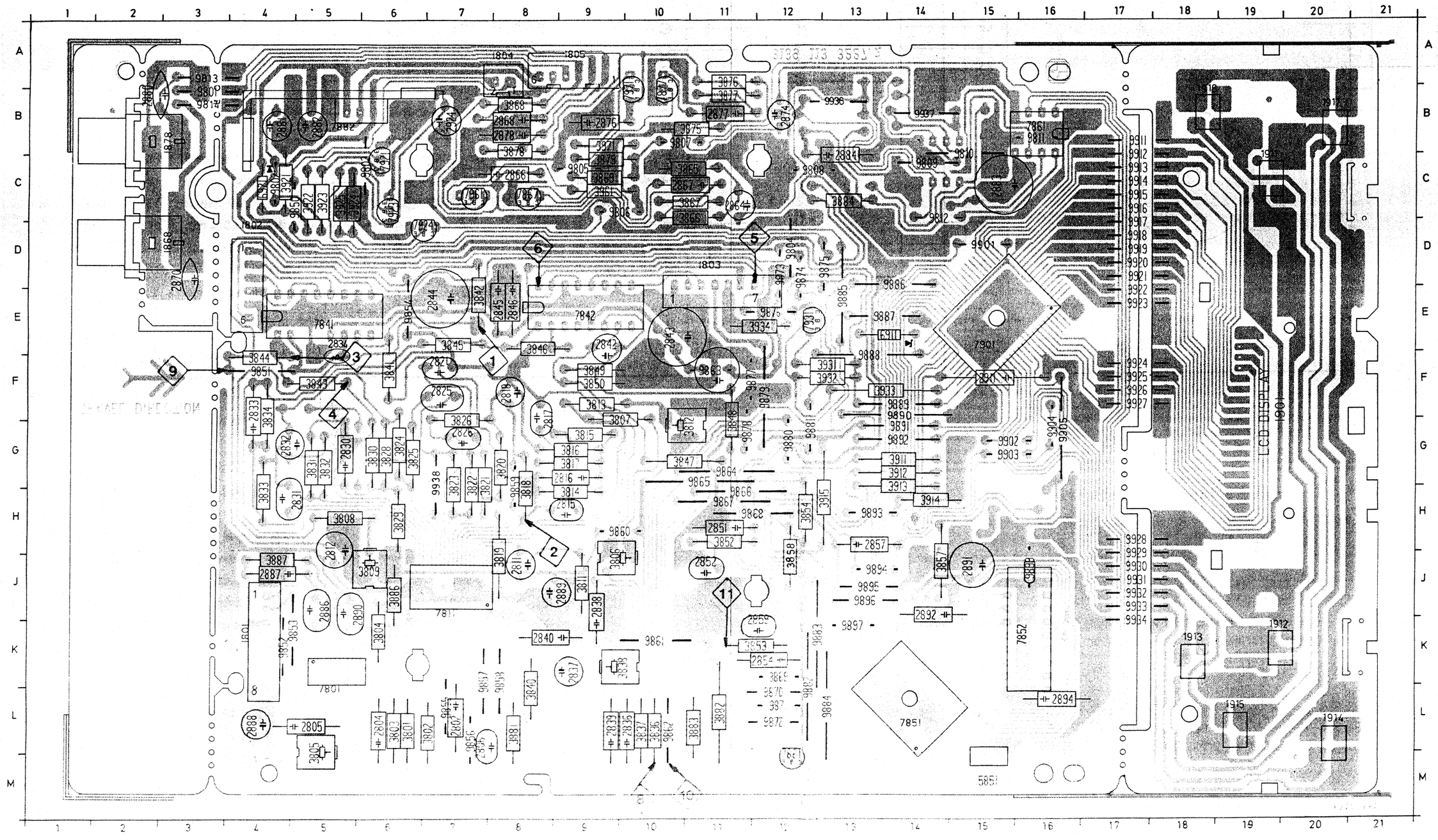


FIG. 3

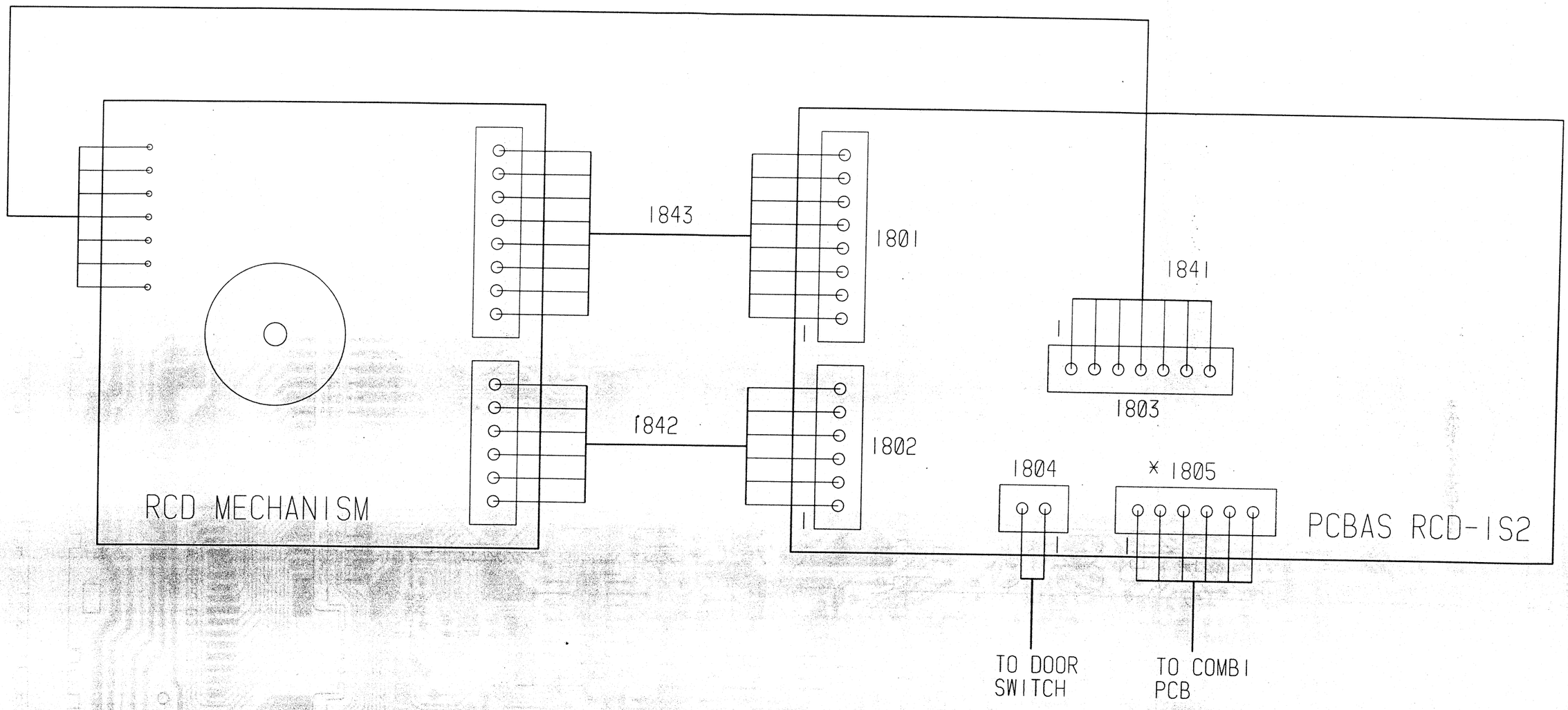


RCD BOARD COMPONENT LAYOUT

1801	K4	2815	H9	2838	K10	2864	C12	2884	C13	3802	M7	3817	H9	3831	H5	3845	F9	3865	C11	3883	L11	3925	D5	7842	E9	7961	D5	9812	D15	9863	F11	9877	F12	9891	G14	9912	C18	9926	F18		
1802	D4	2816	H9	2839	M10	2866	C8			3803	M6	3818	H8	3832	H5	3847	H11	3866	D11	3884	D13	3931	F13	7851	M14	7971	B10	9813	A3	9864	H11	9878	G12	9892	G14	9913	C18	9927	F18		
1803	E11	2817	C9	2840	K9	2867	C11	2886	K5	3804	K6	3819	J8	3833	H1	3848	G12	2867	D11			3932	F13	7852	K16	9801	B2	9814	B3	9865	H11	9879	G12	9893	H14	9914	C18	9928	J18	1911	C19
1804	A8	2818	G8	2842	F10	2868	B8	2887	J5	3805	M5	3820	H8	3834	G4	3849	F9	3868	B8	3886	K7	3933	G14	7861	C16	9802	C5	9851	F4	9866	H12	9880	G12	9894	J14	9915	D18	9929	J18	1912	K19
1805	A9	2821	F7	2843	F11	2870	D3	2888	M4	3806	J10	3821	H8			3850	F9	3869	C10	3887	J5	3934	F12			9803	C6	9852	K5	9867	H11	9881	G13	9895	J14	9916	D18	9930	J18	1913	K18
1868	D3	2825	G7	2844	E7			2889	K9	3807	G10	3822	H8	3836	M10	3852	J11			3911	H14	3961	D10	7867	D8	9804	C12	9853	K5	9868	H12	9882	L13	9896	K14	9917	D18	9931	J18	1914	L20
1878	B3	2826	G7	2851	J11	2874	B12	2890	K6	3808	H6	3823	H7	3837	M10	3853	K12			3912	H14	3971	C10	7877	B10	9805	C9	9854	E7	9869	L12	9883	K13	9897	K13	9918	D18	9932	K18	1915	L19
1901	F20	2830	H6	2852	J11	2876	B10	2891	J15	3809	J6	3824	G7	3838	L10	3854	H13	3875	C11	3913	H14	5851	M15	7881	M12	9806	D10	9855	L7	9870	L12	9884	L13	9899	J16	9919	D18	9933	K18	1916	B18
2802	M7	2831	H5	2854	L12	2877	B11	2892	K15	3811	K9	3825	H7	3840	L9			3876	B11	3914	H15			7882	C6	9806	J10	9856	M8	9871	L12	9885	E13	9901	D15	9920	E18	9934	K18	1917	B20
2804	M6	2832	G5			2878	C8	2894	L17	3812	G11	3826	G7	3841	F6			3877	B11	3915	H13	6911	F14	7901	F15	9807	C11	9857	L8	9872	M12	9886	E14	9902	G16	9921	E18	9936	B13		
2805	M5	2833	G4	2857	J14	2880	B2	2895	C8	3813	G9			3842	E8	3857	J15	3878	C8	3921	C5	6921	C4	7921	C6	9808	C13	9858	L8	9873	E12	9887	E14	9903	G16	9922	E18	9937	B14		
2806	M8			2859	K12	2881	B5	2911	F15	3814	H9	3828	H6	3843	F5	3858	J12	3879	C10	3922	D5	7801	L5	7923	D6	9809	C15	9859	H8	9874	E13	9888	F14	9904	G17	9923	E18	9938	H7		
2811	J8	2836	M10			2882	B5	2924	B7	3815	G9	3829	H7	3844	F4			3881	M8	3923	D5	7811	K7	7924	D7	9810	C15	9861	K10	9875	E13	9889	G14	9905	G17	9924	E18	2834	E5		
2812	J6	2837	L9			2883	C15	3801	M7	3816	G9	3830	H6	3845	F7			3882	L11	3924	D6	7841	F5	7931	E13	9811	C16	9862	M11	9876	E12	9890	G14	9911	C18	9925	F18				



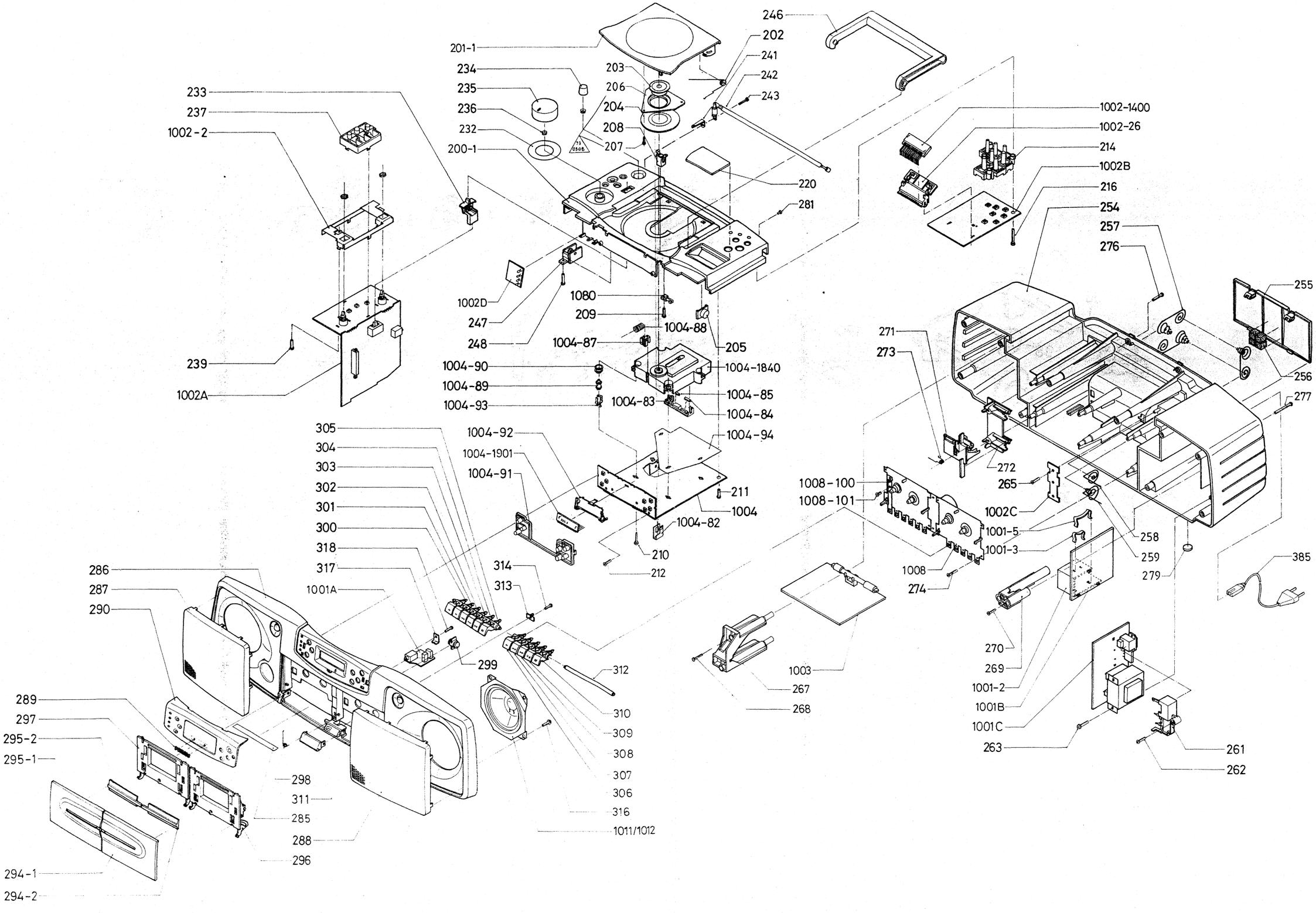
RCD BOARD WIRING DIAGRAM



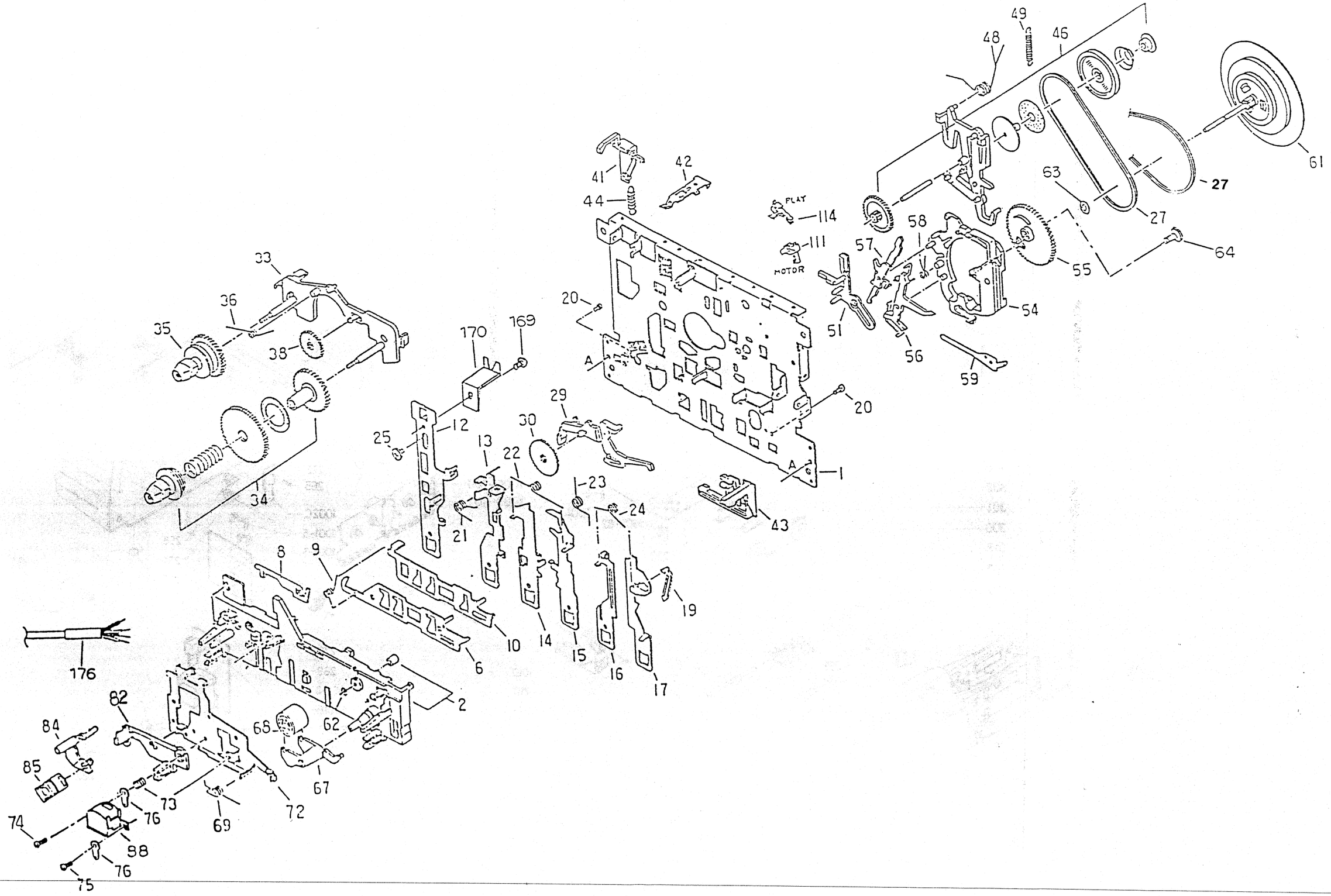
NOTE:

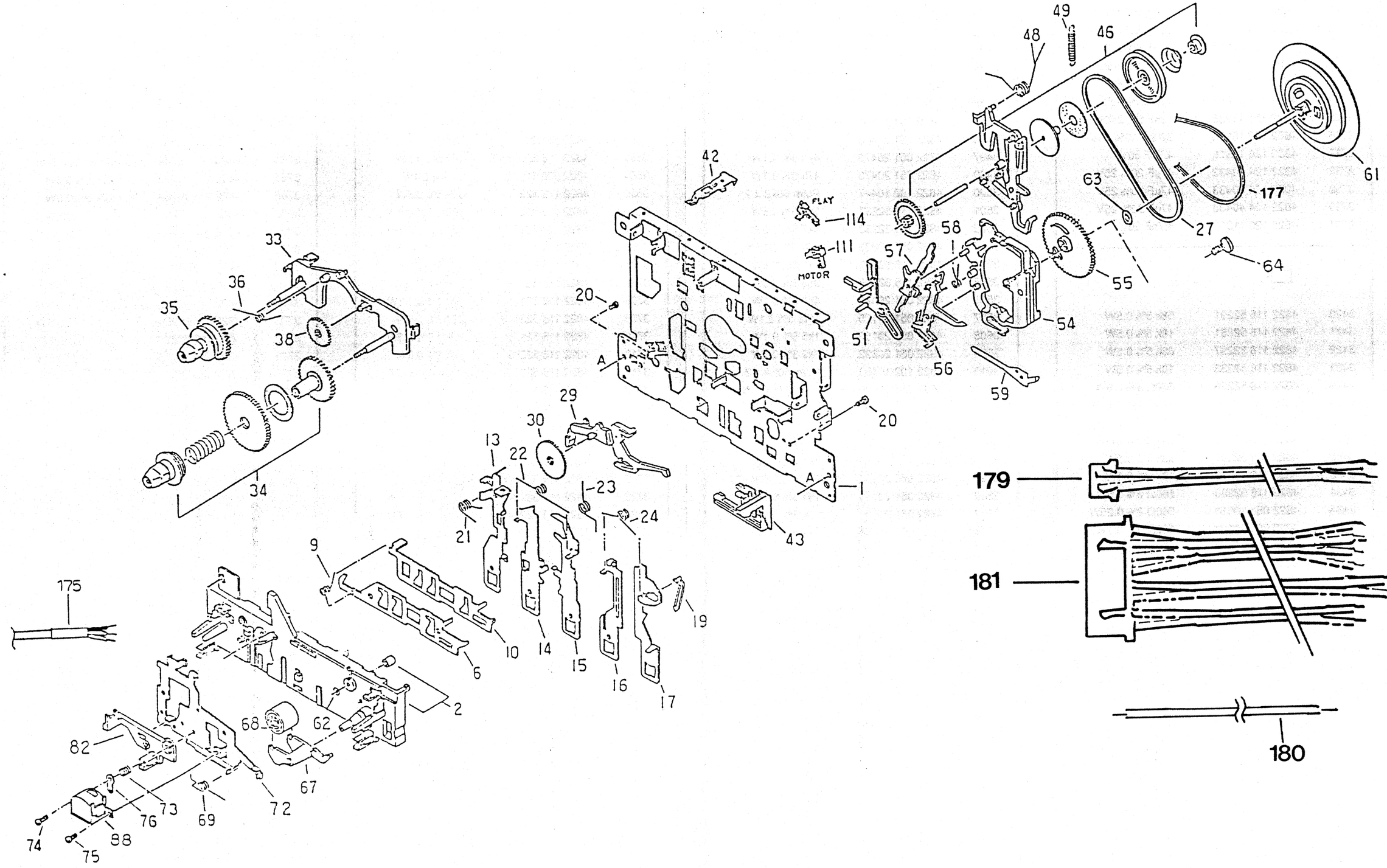
* FOR PCBAS RCD-1S2 3139 118 8532 (AZ8320 & FAMILY) CONNECTOR 1805 IS REVERSED

SET EXPLODED VIEW



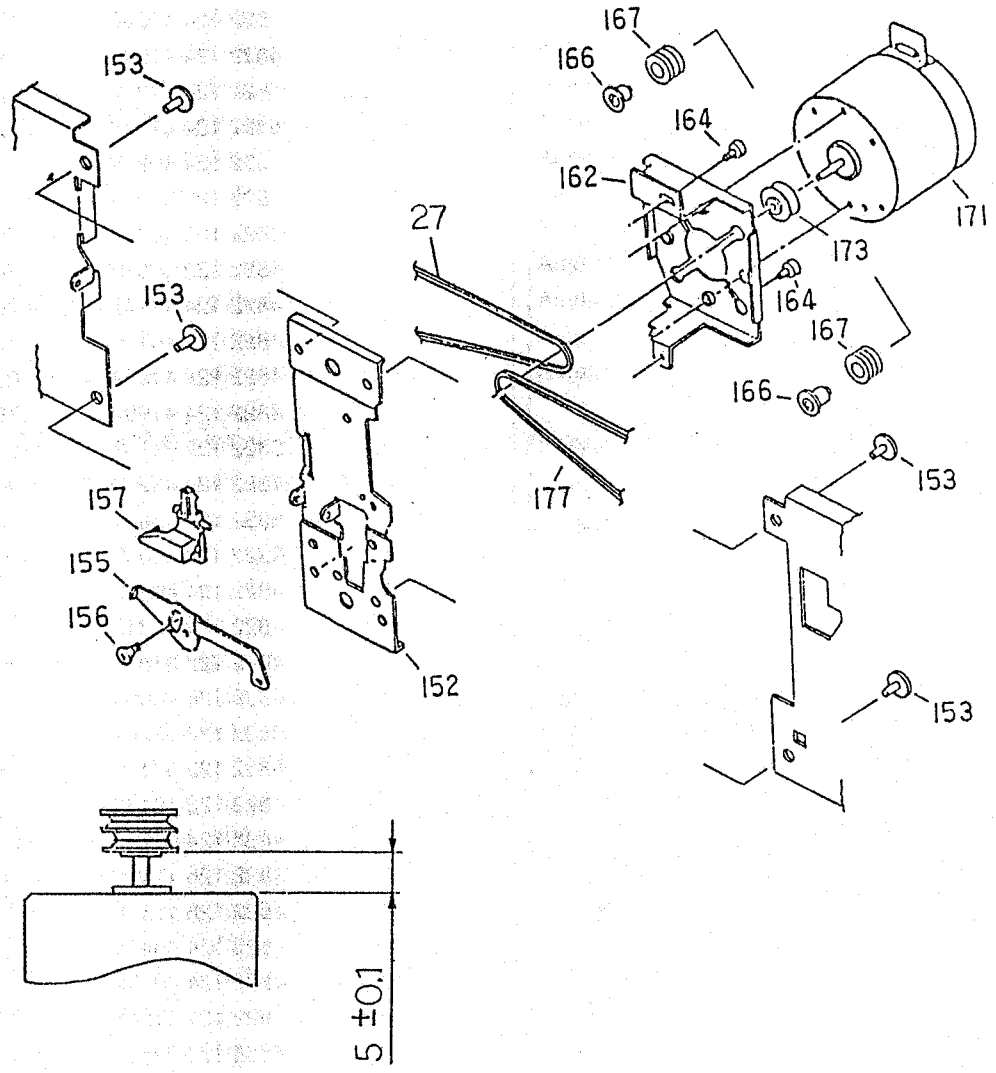
RECORD - PLAYBACK TAPE EXPLODED VIEW




49
48
46
42
61
63
177
27
64
FLAY
114
111
MOTOR
58
57
55
54
51
56
59
33
36
35
38
20
A
29
30
13
22
23
24
21
43
20
1
34
9
10
14
15
16
17
19
175
6
2
68
62
82
67
72
73
76
69
74
75
88

179
181
180

TAPE DECK MOTOR EXPLODED VIEW



MECHANICAL PARTSLIST FOR TAPE DECK EXPLODED VIEW

27	4822 358 31231
67	4822 402 61418
68	4822 528 70785
84	4822 402 61419
85	4822 249 40296
88	4822 249 10425
111	4822 278 90719
114	4822 278 90721
171	4822 361 21585
173	4822 528 81482
177	4822 358 31229

Note : Only the mentioned parts are normal service parts.

MISCELLANEOUS

1400	4822 130 91249	LCD Dispaly
1401	4822 276 13114	Tact Switch 15V 20mA
1406	4822 276 13114	Tact Switch 15V 20mA
1407	4822 276 13114	Tact Switch 15V 20mA
1408	4822 276 13114	Tact Switch 15V 20mA
1409	4822 276 13114	Tact Switch 15V 20mA
1410	4822 276 13114	Tact Switch 15V 20mA
1411	4822 276 13114	Tact Switch 15V 20mA
1412	4822 276 13114	Tact Switch 15V 20mA
1421	4822 276 13114	Tact Switch 15V 20mA
1430	4822 276 13114	Tact Switch 15V 20mA
1550	4822 277 21595	Slide Switch
1551	4822 267 31593	Microphone Socket
1707	4822 277 20594	Slide Switch

⊣⊢

2419	4822 122 33177	30nF 20% 50V
2420	4822 124 40242	1µF 20% 63V
2421	4822 122 33797	47nF 20% 50V
2422	4822 124 40242	1µF 20% 63V
2432	4822 124 40242	1µF 20% 63V
2441	4822 124 40196	220µF 20% 16V
2442	5322 122 32654	22nF 10% 63V
2443	4822 124 40177	47µF 20% 10V
2444	5322 122 32654	22nF 10% 63V
2445	5322 122 32654	22nF 10% 63V
2446	4822 124 41525	100µF 20% 25V
2447	4822 124 40248	10µF 20% 63V
2451	4822 126 12729	220nF 80-20% 16V
2452	5322 122 32654	22nF 10% 63V
2453	5322 122 32654	22nF 10% 63V
2454	5322 122 32654	22nF 10% 63V
2461	4822 122 33342	33nF 10% 63V
2462	4822 122 33177	10nF 20% 50V
2463	5322 122 32531	100pF 5% 50V
2464	4822 122 33195	100pF 10% 50V
2467	4822 122 33195	100pF 10% 50V
2470	5322 122 32531	100pF 5% 50V
2475	4822 124 40177	47µF 20% 10V
2495	5322 122 32268	470pF 10% 50V
2496	5322 122 32531	100pF 5% 50V
2506	4822 124 40239	0.47µF 20% 63V
2507	5322 122 32661	56pF 5% 50V
2508	5322 122 32268	470pF 10% 50V
2509	4822 124 40242	1µF 20% 63V
2511	4822 122 33342	33nF 10% 63V
2513	4822 126 12795	1.8nF 20% 16V
2515	4822 126 10003	33nF 30% 50V
2516	5322 122 32268	470pF 10% 50V
2517	5322 122 34123	1nF 10% 50V

⊣⊢

2521	4822 124 40246	4.7µF 20% 63V
2526	4822 124 41584	100µF 20% 10V
2527	4822 124 40272	33µF 20% 16V
2528	5322 124 41431	22µF 20% 35V
2530	4822 124 40244	2.2µF 20% 63V
2531	4822 122 33997	56pF 5%
2532	4822 124 40244	2.2µF 20% 63V
2533	4822 122 33519	470pF 10% 50V
2534	4822 124 40177	47µF 20% 10V
2541	4822 124 40177	47µF 20% 10V
2542	4822 124 41584	100µF 20% 10V
2545	4822 124 41997	470µF 10V
2548	5322 122 34123	1nF 10% 50V
2556	4822 124 40239	0.47µF 20% 63V
2557	5322 122 32661	56pF 5% 50V
2558	5322 122 34099	470pF 10% 63V
2559	4822 124 40242	1µF 20% 63V
2561	4822 122 33342	33nF 10% 63V
2563	4822 122 31835	1.8nF 10% 50V
2565	4822 126 10003	33nF 30% 50V
2566	5322 122 32268	470pF 10% 50V
2567	5322 122 34123	1nF 10% 50V
2701	4822 122 10173	820pF 10% 50V
2703	4822 124 41584	100µF 20% 10V
2704	4822 126 11595	470pF 10% 50V
2705	4822 126 11311	4.7nF 50V
2706	4822 124 40433	47µF 20% 25V
2708	4822 124 40435	10µF 20% 50V
2709	4822 121 41857	10nF 5% 250V
2711	4822 124 22633	22µF 20% 35V
2712	4822 126 11311	4.7nF 50V
2713	4822 124 40433	47µF 20% 25V
2720	4822 122 31466	330pF 10% 50V
2721	4822 122 30054	1.2nF 10% 100V
2722	4822 124 22466	1µF 20% 50V
2723	4822 124 22633	22µF 20% 35V
2724	4822 126 11595	470pF 10% 50V
2725	4822 124 40433	47µF 20% 25V
2726	5322 124 41431	22µF 20% 35V
2728	4822 124 22633	22µF 20% 35V
2731	4822 121 41857	10nF 5% 250V
2732	4822 122 10175	2.2nF 10% 50V
2751	4822 122 10173	820pF 10% 50V
2753	4822 124 41584	100µF 20% 10V
2754	4822 126 11595	470pF 10% 50V
2758	4822 124 40435	10µF 20% 50V
2759	4822 121 41857	10nF 5% 250V
2762	4822 126 11311	4.7nF 50V
2770	4822 122 31466	330pF 10% 50V
2771	4822 122 30054	1.2nF 10% 100V
2772	4822 124 22466	1µF 20% 50V
2773	4822 124 22633	22µF 20% 35V

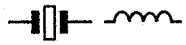
2774	4822 126 11595	470pF 10% 50V
2775	4822 124 40184	1000µF 20% 10V
2778	4822 124 22633	22µF 20% 35V
2781	4822 121 41857	10nF 5% 250V
2782	4822 122 10175	2.2nF 10% 50V
2783	4822 124 40242	1µF 20% 63V
2784	4822 124 40242	1µF 20% 63V
2785	4822 121 41935	12nF 5% 250V
2786	4822 122 10172	220pF 10% 50V
2787	4822 126 11311	4.7nF 50V
2788	4822 124 40433	47µF 20% 25V
2789	4822 124 40433	47µF 20% 25V
2790	4822 124 40433	47µF 20% 25V
2791	4822 126 11311	4.7nF 50V

3420	4822 116 52291	56k 5% 0.5W
3421	4822 116 52251	18k 5% 0.5W
3422	4822 116 52297	68k 5% 0.5W
3423	4822 116 52233	10k 5% 0.5W
3424	4822 116 52226	560Ω 5% 0.5W
3424	4822 051 10561	560Ω 2% 0.25W
3426	4822 051 20153	15k 5% 0.1W
3431	4822 116 52251	18k 5% 0.5W
3432	4822 116 52297	68k 5% 0.5W
3433	4822 116 52233	10k 5% 0.5W
3434	4822 116 52226	560Ω 5% 0.5W
3434	4822 051 10561	560Ω 2% 0.25W
3441	4822 051 20101	100Ω 5% 0.1W
3442	4822 051 20474	470k 5% 0.1W
3443	4822 051 20475	4M7 5% 0.1W
3444	4822 051 20473	47k 5% 0.1W
3445	4822 051 20104	100k 5% 0.1W
3451	4822 051 20104	100k 5% 0.1W
3452	4822 051 20103	10k 5% 0.1W
3453	4822 051 20103	10k 5% 0.1W
3455	4822 051 10102	1k 2% 0.25W
3456	4822 051 20472	4k7 5% 0.1W
3457	4822 051 20472	4k7 5% 0.1W
3458	4822 051 20103	10k 5% 0.1W
3461	4822 051 10102	1k 2% 0.25W
3462	4822 051 20103	10k 5% 0.1W
3463	4822 051 10102	1k 2% 0.25W
3465	4822 051 20472	4k7 5% 0.1W
3468	4822 051 10102	1k 2% 0.25W
3469	4822 051 10102	1k 2% 0.25W
3470	4822 051 10102	1k 2% 0.25W
3471	4822 051 20472	4k7 5% 0.1W
3472	4822 051 20473	47k 5% 0.1W
3473	4822 051 10102	1k 2% 0.25W

3474	4822 051 20103	10k 5% 0.1W
3475	4822 116 52213	180Ω 5% 0.5W
3475	4822 050 21801	180Ω 1% 0.6W -/01
3481	4822 051 10333	33k 2% 0.25W
3484	4822 051 20273	27k 5% 0.1W
3485	4822 051 20103	10k 5% 0.1W
3486	4822 051 20222	2k2 5% 0.1W
3487	4822 051 20561	560Ω 5% 0.1W
3496	4822 051 20473	47k 5% 0.1W
3497	4822 051 20473	47k 5% 0.1W
3499	4822 051 20473	47k 5% 0.1W
3500	4822 102 10447	Potm 50kB x 2
3501	4822 116 52233	10k 5% 0.5W
3502	4822 116 52283	4k7 5% 0.5W
3503	4822 051 10333	33k 2% 0.25W
3504	4822 116 52283	4k7 5% 0.5W
3505	4822 116 52269	3k3 5% 0.5W
3506	4822 051 20472	4k7 5% 0.1W
3507	4822 051 20125	1M2 5% 0.1W
3508	4822 051 20152	1k5 5% 0.1W
3509	4822 051 20392	3k9 5% 0.1W
3510	4822 102 10453	Potm 50kA x 2
3511	4822 051 20471	470Ω 5% 0.1W
3513	4822 116 52233	10k 5% 0.5W
3514	4822 050 11002	1k 1% 0.4W
3515	4822 116 52277	39k 5% 0.5W
3521	4822 116 52296	6k8 5% 0.5W
3521	4822 050 26802	6k8 1% 0.6W -/01
3522	4822 051 20153	15k 5% 0.1W
3523	4822 051 20103	10k 5% 0.1W
3524	4822 050 11002	1k 1% 0.4W
3525	4822 116 52296	6k8 5% 0.5W -/01
3525	4822 050 26802	6k8 1% 0.6W
3526	4822 051 20153	15k 5% 0.1W
3528	4822 051 20103	10k 5% 0.1W
3529	4822 051 20103	10k 5% 0.1W
3530	4822 051 10102	1k 2% 0.25W
3532	4822 116 52234	100k 5% 0.5W
3533	4822 116 52175	100Ω 5% 0.5W
3534	4822 116 52245	150k 5% 0.5W
3535	4822 116 52256	2k2 5% 0.5W
3536	4822 116 52256	2k2 5% 0.5W
3541	4822 052 10478 ⚠	4Ω7 5% 0.33W
3542	4822 116 52175	100Ω 5% 0.5W
3543	4822 116 52224	470Ω 5% 0.5W
3545	4822 051 20221	220Ω 5% 0.1W
3546	4822 051 20473	47k 5% 0.1W
3547	4822 051 20473	47k 5% 0.1W
3548	4822 116 52175	100Ω 5% 0.5W
3549	4822 116 52224	470Ω 5% 0.5W -/01
3549	4822 116 52224	470Ω 5% 0.5W
3551	4822 116 52233	10k 5% 0.5W

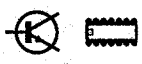
3552	4822 116 52283	4k7 5% 0.5W
3553	4822 051 10333	33k 2% 0.25W
3554	4822 116 52283	4k7 5% 0.5W
3555	4822 116 52269	3k3 5% 0.5W
3556	4822 051 20472	4k7 5% 0.1W
3557	4822 051 20125	1M2 5% 0.1W
3558	4822 051 20152	1k5 5% 0.1W
3559	4822 051 20392	3k9 5% 0.1W
3561	4822 051 20471	470Ω 5% 0.1W
3563	4822 116 52233	10k 5% 0.5W
3564	4822 050 11002	1k 1% 0.4W
3565	4822 116 52277	39k 5% 0.5W
3701	4822 116 52224	470Ω 5% 0.5W
3702	4822 116 52224	470Ω 5% 0.5W
3703	4822 116 52224	470Ω 5% 0.5W
3704	4822 116 52239	120k 5% 0.5W
3705	4822 116 52188	27Ω 5% 0.5W
3706	4822 116 52175	100Ω 5% 0.5W
3708	4822 116 52257	22k 5% 0.5W
3709	4822 116 52175	100Ω 5% 0.5W
3710	4822 116 52289	5k6 5% 0.5W
3711	4822 116 52234	100k 5% 0.5W
3712	4822 116 52251	18k 5% 0.5W
3713	4822 116 52296	6k8 5% 0.5W
3716	4822 116 52284	47k 5% 0.5W
3717	4822 116 52256	2k2 5% 0.5W
3718	4822 116 52224	470Ω 5% 0.5W
3719	4822 116 52257	22k 5% 0.5W
3720	4822 116 52224	470Ω 5% 0.5W
3721	4822 116 52224	470Ω 5% 0.5W
3722	4822 116 52224	470Ω 5% 0.5W
3723	4822 116 52224	470Ω 5% 0.5W
3724	4822 116 52239	120k 5% 0.5W
3725	4822 116 52175	100Ω 5% 0.5W
3727	4822 050 24705	4M7 1% 0.6W
3730	4822 050 11002	1k 1% 0.4W
3731	4822 116 52289	5k6 5% 0.5W
3732	4822 116 52233	10k 5% 0.5W
3735	4822 116 52238	12k 5% 0.5W
3736	4822 116 52264	27k 5% 0.5W
3737	4822 116 52224	470Ω 5% 0.5W
3738	4822 116 52257	22k 5% 0.5W
3739	4822 116 52224	470Ω 5% 0.5W
3741	4822 050 11002	1k 1% 0.4W
3742	4822 050 11002	1k 1% 0.4W
3743	4822 116 52257	22k 5% 0.5W
3744	4822 116 52258	220k 5% 0.5W
3745	4822 116 52244	15k 5% 0.5W
3746	4822 116 52224	470Ω 5% 0.5W
3747	4822 116 52234	100k 5% 0.5W
3749	4822 116 52283	4k7 5% 0.5W
3751	4822 116 52224	470Ω 5% 0.5W

3752	4822 116 52224		470Ω 5% 0.5W
3753	4822 116 52224		470Ω 5% 0.5W
3754	4822 116 52239		120k 5% 0.5W
3755	4822 116 52188		27Ω 5% 0.5W
3756	4822 050 11002		1k 1% 0.4W
3759	4822 116 52277		39k 5% 0.5W
3760	4822 116 52289		5k6 5% 0.5W
3761	4822 116 52234		100k 5% 0.5W
3763	4822 116 52296		6k8 5% 0.5W
3764	4822 116 52234		100k 5% 0.5W
3765	4822 116 52238		12k 5% 0.5W
3766	4822 116 52284		47k 5% 0.5W
3767	4822 116 52256		2k2 5% 0.5W
3768	4822 116 52224		470Ω 5% 0.5W
3769	4822 116 52257		22k 5% 0.5W
3770	4822 116 52224		470Ω 5% 0.5W
3771	4822 116 52224		470Ω 5% 0.5W
3772	4822 116 52224		470Ω 5% 0.5W
3773	4822 116 52224		470Ω 5% 0.5W
3774	4822 116 52239		120k 5% 0.5W
3775	4822 116 52175		100Ω 5% 0.5W
3776	4822 116 52277		39k 5% 0.5W
3778	4822 052 10478	⚠	4Ω7 5% 0.33W
3779	4822 116 52298		680k 5% 0.5W
3780	4822 050 11002		1k 1% 0.4W
3781	4822 116 52289		5k6 5% 0.5W
3782	4822 051 10102		1k 2% 0.25W
3783	4822 051 20684		680k 5% 0.1W
3784	4822 116 52234		100k 5% 0.5W
3785	4822 116 52238		12k 5% 0.5W
3786	4822 116 52264		27k 5% 0.5W
3787	4822 116 52244		15k 5% 0.5W
3788	4822 116 52257		22k 5% 0.5W
3789	4822 116 52224		470Ω 5% 0.5W
3791	4822 050 11002		1k 1% 0.4W
3792	4822 050 11002		1k 1% 0.4W
3793	4822 116 52186		22Ω 5% 0.5W
3796	4822 050 11002		1k 1% 0.4W
3797	4822 116 52234		100k 5% 0.5W
3798	4822 116 52233		10k 5% 0.5W
3799	4822 116 52234		100k 5% 0.5W
9592	4822 051 10008		0Ω 5% 0.25W
9593	4822 051 10008		0Ω 5% 0.25W
9594	4822 051 10008		0Ω 5% 0.25W
9596	4822 051 10008		0Ω 5% 0.25W
9617	4822 051 10008		0Ω 5% 0.25W
9618	4822 051 10008		0Ω 5% 0.25W
9629	4822 051 10008		0Ω 5% 0.25W
9630	4822 051 10008		0Ω 5% 0.25W
9662	4822 051 10008		0Ω 5% 0.25W
9687	4822 051 10008		0Ω 5% 0.25W

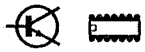


5401	4822 242 73577	4MHz Resonator
5701	4822 157 53856	Coil 270µH
5702	4822 157 53856	Coil 270µH

6411	4822 130 83363	LTL16KGE
6421	4822 130 83363	LTL16KGE
6432	4822 130 30621	1N4148
6433	4822 130 30621	1N4148
6434	4822 130 30621	1N4148
6435	4822 130 30621	1N4148 -/01
6444	4822 130 30621	1N4148
6445	4822 130 30621	1N4148
6475	4822 130 34233	BZX79-C5V1
6521	4822 130 34174	BZX79-C4V7
6522	4822 130 30621	1N4148
6523	4822 130 30621	1N4148
6524	4822 130 30621	1N4148
6525	4822 130 34174	BZX79-C4V7
6527	4822 130 30621	1N4148
6528	4822 130 30621	1N4148
6540	4822 130 83363	LTL16KGE
6541	4822 130 30861	BZX79-C7V5
6542	4822 130 82978	LTL-16KPE
6543	4822 130 30621	1N4148
6701	4822 130 30621	1N4148
6702	4822 130 30621	1N4148
6705	4822 130 30621	1N4148
6706	4822 130 30621	1N4148
6707	4822 130 30621	1N4148
6708	4822 130 30621	1N4148
6709	4822 130 30621	1N4148
6710	4822 130 30621	1N4148
6711	4822 130 30861	BZX79-C7V5
6712	4822 130 30621	1N4148
6713	4822 130 34173	BZX79-C5V6
6714	4822 130 30621	1N4148



7400	4822 209 32437	TMP47C421AF-V344
7400	4822 209 32563	TMP47C421AF-V357 -/01
7401	4822 130 44197	TBC558B
7403	4822 209 31168	ST93C06B1
7403	4822 209 31823	ST93C46AB1 -/01
7405	4822 130 44196	TBC548C
7406	4822 130 44196	TBC548C
7407	4822 130 44196	TBC548C
7420	4822 209 10248	HEF4013BP
7421	5322 130 60068	TBC558C



7431	5322 130 60068	TBC558C
7441	4822 209 10306	HEF4049BP
7442	4822 130 41344	BC337-40
7501	4822 130 44196	TBC548C
7502	4822 130 44196	TBC548C
7503	4822 130 44196	TBC548C
7530	4822 130 44246	TBC549C
7541	4822 130 44196	TBC548C
7546	4822 130 44196	TBC548C
7551	4822 130 44196	TBC548C
7552	4822 130 44196	TBC548C
7553	4822 130 44196	TBC548C
7701	4822 209 72491	KA2224
7702	4822 209 70288	UPC1313HA
7703	4822 130 40937	TBC548B
7704	4822 130 40937	TBC548B
7706	5322 130 44779	BC338-40
7707	5322 130 44779	BC338-40
7708	4822 130 44197	TBC558B
7709	4822 130 40937	TBC548B
7710	4822 130 44197	TBC558B
7711	4822 130 40937	TBC548B
7712	4822 130 44196	TBC548C
7713	4822 130 44197	TBC558B
7753	4822 130 40937	TBC548B
7756	5322 130 44779	BC338-40
7757	5322 130 44779	BC338-40
7758	4822 130 44197	TBC558B
7759	4822 130 44197	TBC558B

Note : Only the mentioned parts are normal service parts.

POWER BOARD

MISCELLANEOUS

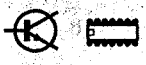
1005	4822 265 20287	⚠	Mains Socket
1005	4822 265 30986	⚠	Mains Socket -/17
1006	4822 272 10225	⚠	Voltage Selector -/01/10
1250	4822 071 51252	⚠	Fuse 1.6A
1250	4822 252 51119	⚠	Fuse 1.25A -/17
1305	4822 267 40898		Headphone Socket

2250	4822 121 42007	100nF 10% 100V
2251	4822 122 33307	10nF 5% 50V
2252	4822 122 33307	10nF 5% 50V
2253	4822 122 33307	10nF 5% 50V
2254	4822 122 33307	10nF 5% 50V
2255	4822 124 42246	470µF 20% 25V -/17
2256	4822 124 42119	4700µF 20% 25V
2257	4822 124 42246	470µF 20% 25V
2259	4822 124 23794	470µF 20% 16V
2260	4822 124 40196	220µF 20% 16V
2261	4822 124 23794	470µF 20% 16V
2301	4822 124 40242	1µF 20% 63V
2302	4822 122 10459	560pF 10% 50V
2303	4822 124 41584	100µF 20% 10V
2304	4822 124 23794	470µF 20% 16V
2305	4822 124 40433	47µF 20% 25V
2306	4822 124 40184	1000µF 20% 10V
2307	4822 121 43943	150nF 10% 50V
2351	4822 124 40242	1µF 20% 63V
2352	4822 122 10459	560pF 10% 50V
2353	4822 124 41584	100µF 20% 10V
2355	4822 124 40433	47µF 20% 25V
2356	4822 124 40184	1000µF 20% 10V
2357	4822 121 43943	150nF 10% 50V
2401	4822 124 40246	4.7µF 20% 63V
2402	4822 124 40242	1µF 20% 63V
2403	4822 124 40196	220µF 20% 16V
2404	4822 124 23179	10µF 20% 16V
2412	4822 124 40242	1µF 20% 63V

3250	4822 053 11339	⚠	33Ω 5% 2W -/17
3252	4822 052 10108	⚠	1Ω 5% 0.33W -/17
3253	4822 052 10108	⚠	1Ω 5% 0.33W -/17
3254	4822 052 10108	⚠	1Ω 5% 0.33W -/17
3255	4822 052 10108	⚠	1Ω 5% 0.33W -/17
3256	4822 052 10108	⚠	1Ω 5% 0.33W -/17
3259	4822 116 52226		560Ω 5% 0.5W
3260	4822 116 52175		100Ω 5% 0.5W
3264	4822 052 10478	⚠	4Ω7 5% 0.33W

3301	4822 116 52219	330Ω 5% 0.5W
3302	4822 050 24708	4Ω7 1% 0.6W
3303	4822 116 52211	150Ω 5% 0.5W
3304	4822 116 52224	470Ω 5% 0.5W
3351	4822 116 52219	330Ω 5% 0.5W
3352	4822 050 24708	4Ω7 1% 0.6W
3353	4822 116 52211	150Ω 5% 0.5W
3354	4822 116 52224	470Ω 5% 0.5W
3355	4822 116 52296	6k8 5% 0.5W
3401	4822 052 10478	⚠ 4Ω7 5% 0.33W
3402	4822 116 52233	10k 5% 0.5W
3403	4822 116 52256	2k2 5% 0.5W
3404	4822 116 52256	2k2 5% 0.5W
3405	4822 116 52233	10k 5% 0.5W
3406	4822 116 52256	2k2 5% 0.5W
3407	4822 051 10333	33k 2% 0.25W
3408	4822 116 52234	100k 5% 0.5W
3409	4822 116 52233	10k 5% 0.5W
3409	4822 116 52233	10k 5% 0.5W -/01/10
3410	4822 116 52175	100Ω 5% 0.5W
3411	4822 116 52251	18k 5% 0.5W
3412	4822 116 52297	68k 5% 0.5W
3414	4822 116 52297	68k 5% 0.5W

6250	4822 130 81663	G2D
6251	4822 130 81663	G2D
6252	4822 130 81663	G2D
6253	4822 130 81663	G2D
6254	5322 130 30684	1N4002 -/17
6256	4822 130 34382	BZX79-C8V2
6402	4822 130 81758	HZ6B3L
6408	4822 130 30621	1N4148



7250	4822 209 63822	LM2940T-10
7251	4822 130 41344	BC337-40
7301	4822 209 70998	AN7148
7400	4822 209 10248	HEF4013BP
7401	4822 130 62388	2SA1160B
7402	4822 130 62388	2SA1160B
7403	4822 130 44196	TBC548C
7404	4822 130 44196	TBC548C
7405	4822 130 44196	TBC548C

Note : Only the mentioned parts are normal service parts.

TUNER BOARD

2104	4822 122 33195	100pF 10% 50V
2107	4822 122 31746	1000pF 2% 63V
2110	5322 122 32659	33pF 5% 50V -/00/05
2110	5322 122 32269	6.8pF 5% 50V -/01/10/17
2112	4822 122 33496	100nF 10% 63V
2114	5322 122 32531	100pF 5% 50V -/00/05
2115	4822 125 60101	3P0-11pF N45 100V
2118	4822 122 33195	100pF 10% 50V
2120	5322 122 32268	470pF 10% 50V
2121	5322 122 32481	15pF 5% 50V
2122	4822 122 31746	1000pF 2% 63V
2123	4822 122 31746	1000pF 2% 63V
2124	4822 121 51387	10nF 20% 16V
2129	4822 121 43705	390pF 1% 160V -/00/05
2130	4822 125 50355	4.2pF - 20pF Variable
2133	4822 122 33177	10nF 20% 50V
2134	4822 122 33197	1nF 10% 50V
2135	4822 121 70245	560pF 1% 160V
2138	5322 122 32658	22pF 5% 50V -/17
2138	5322 122 32658	22pF 5% 50V -/01/10
2139	4822 122 32627	2.7nF 10% 50V -/00/05
2141	4822 124 40244	2.2µF 20% 63V
2142	4822 124 40242	1µF 20% 63V
2143	4822 122 33325	470nF 16V
2144	4822 122 33325	470nF 16V
2145	4822 122 33496	100nF 10% 63V -/00/05
2146	5322 122 33063	2.2pF 5% 50V -/00/05
2147	4822 122 33177	10nF 20% 50V
2150	4822 124 40435	10µF 20% 50V
2151	4822 124 40435	10µF 20% 50V
2152	4822 122 33496	100nF 10% 63V
2154	4822 122 33175	2.2nF 20% 50V
2155	4822 122 33175	2.2nF 20% 50V
2156	5322 126 10181	100nF 25V
2157	5322 126 10181	100nF 25V
2158	4822 122 31775	680pF 2% 63V -/00/05/17
2158	4822 122 31746	1000pF 2% 63V -/01/10
2159	4822 122 31775	680pF 2% 63V -/00/05/17
2159	4822 122 31746	1000pF 2% 63V -/01/10
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 40242	1µF 20% 63V
2162	4822 124 40242	1µF 20% 63V
2168	4822 122 33481	1800pF 2% 63V
2169	5322 122 31863	330pF 5% 50V
2170	5322 126 10223	4.7nF 10% 63V
2171	5322 126 10223	4.7nF 10% 63V
2172	4822 124 41631	1.5µF 50V
2173	4822 124 40433	47µF 20% 25V
2174	5322 116 80853	560pF 5% 63V
2175	5322 122 32531	100pF 5% 50V
2177	5322 126 10181	100nF 25V
2178	4822 122 33197	1nF 10% 50V
2179	4822 122 33195	100pF 10% 50V

2180	5322 122 31946	27pF 10% 50V
2181	4822 122 32139	12pF 2% 63V
2182	4822 122 33496	100nF 10% 63V
2183	4822 122 33496	100nF 10% 63V
2184	4822 124 41584	100µF 20% 10V
2185	4822 122 33496	100nF 10% 63V
2186	4822 122 31746	1000pF 2% 63V

3106	4822 051 20104	100k 5% 0.1W
3107	4822 051 20222	2k2 5% 0.1W -/00/05
3108	4822 051 20104	100k 5% 0.1W
3109	4822 051 20222	2k2 5% 0.1W -/00/05
3110	4822 051 20473	47k 5% 0.1W -/00/05
3111	4822 051 20153	15k 5% 0.1W
3112	4822 051 20273	27K 5% 0.1W
3116	4822 051 20335	3M3 5% 0.1W -/00/05
3119	4822 116 52224	470Ω 5% 0.5W
3120	4822 116 52289	5k6 5% 0.5W
3121	4822 051 20104	100k 5% 0.1W
3122	4822 051 20471	470Ω 5% 0.1W
3123	4822 051 20223	22k 5% 0.1W
3124	4822 116 52256	2k2 5% 0.5W -/00/05
3125	4822 051 20472	4k7 5% 0.1W -/00/05
3128	4822 051 20222	2k2 5% 0.1W
3129	4822 051 20472	4k7 5% 0.1W -/00/05
3132	4822 116 52283	4k7 5% 0.5W
3141	4822 116 52215	220Ω 5% 0.5W
3142	4822 051 20222	2k2 5% 0.1W
3144	4822 051 20473	47k 5% 0.1W
3147	4822 051 20184	180k 5% 0.1W
3148	4822 100 11682	47k 30%LIN 0.2W
3149	4822 051 20683	68k 5% 0.1W
3151	4822 116 52243	1k5 5% 0.5W
3154	4822 051 20333	33k 5% 0.1W
3155	4822 051 20333	33k 5% 0.1W
3156	4822 116 52233	10k 5% 0.5W
3157	4822 051 20473	47k 5% 0.1W
3158	4822 051 20189	18R 5% 0.1W -/00/05
3160	4822 051 20823	82k 5% 0.1W
3161	4822 051 20823	82k 5% 0.1W
3162	4822 050 11002	1k 1% 0.4W
3163	4822 050 11002	1k 1% 0.4W
3164	4822 116 52283	4k7 5% 0.5W
3165	4822 116 52283	4k7 5% 0.5W
3166	4822 051 20101	100Ω 5% 0.1W
3167	4822 051 20331	330Ω 5% 0.1W
3168	4822 051 20103	10k 5% 0.1W
3169	4822 051 20224	220k 5% 0.1W
3170	4822 116 52283	4k7 5% 0.5W
3171	4822 051 20101	100Ω 5% 0.1W

3172	4822 051 20472	4k7 5% 0.1W
3173	4822 116 52244	15k 5% 0.5W
3174	4822 116 52233	10k 5% 0.5W
3175	4822 051 20104	100k 5% 0.1W
3176	4822 051 20104	100k 5% 0.1W
3177	4822 116 52233	10K 5% 0.5W -/00/05
3178	4822 051 20104	100k 5% 0.1W
3179	4822 051 20223	22k 5% 0.1W
3180	4822 051 20104	100k 5% 0.1W
3181	4822 116 52234	100k 5% 0.5W
3183	4822 051 20223	22k 5% 0.1W
3184	4822 051 20223	22k 5% 0.1W
3185	4822 051 20104	100k 5% 0.1W
3186	4822 051 20473	47K 5% 0.1W
3188	4822 051 10102	1k 2% 0.25W
3189	4822 116 52249	1k8 5% 0.5W
3190	4822 116 52249	1k8 5% 0.5W
3191	4822 116 52249	1k8 5% 0.5W
3192	4822 116 52249	1k8 5% 0.5W
3196	4822 116 52233	10k 5% 0.5W
3197	4822 050 11002	1k 1% 0.4W
3198	4822 116 52224	470Ω 5% 0.5W
3199	4822 051 20224	220k 5% 0.1W
3211	4822 051 10008	0Ω 5% 0.25W
3212	4822 051 10008	0Ω 5% 0.25W
3213	4822 051 10008	0Ω 5% 0.25W
3220	4822 051 20008	0Ω 0 JUMP. (0805)
3222	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3223	4822 051 20008	0Ω 0 JUMP. (0805) -/00/05
3224	4822 051 20008	0Ω 0 JUMP. (0805)
3226	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3228	4822 051 10008	0Ω 5% 0.25W
3229	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3233	4822 051 20008	0Ω 0 JUMP. (0805)
3237	4822 051 10008	0Ω 5% 0.25W
3238	4822 051 20008	0Ω 0 JUMP. (0805) -/00/05
3240	4822 051 10008	0Ω 5% 0.25W
3241	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3242	4822 051 10008	0Ω 5% 0.25W
3243	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3244	4822 051 20008	0Ω 0 JUMP. (0805)
3245	4822 051 20008	0Ω 0 JUMP. (0805) -/01/10/17
3246	4822 051 10008	0Ω 5% 0.25W
3247	4822 051 10008	0Ω 5% 0.25W
3248	4822 051 20008	0Ω 0 JUMP. (0805)
3249	4822 051 20153	15k 5% 0.1W -/00/05
3249	4822 051 20821	820Ω 5% 0.1W -/01/10/17

5105	4822 158 60641	Ferrite Ant MW/LW -/00/05
5106	4822 158 60642	Ferrite Ant MW -/01/10/17
5109	4822 156 30947	RF Coil 1.5 T

5120	4822 156 30947	RF Coil 1.5 T
5122	4822 157 60517	110µH 8% -/00/05
5123	4822 157 60517	110µH 8%
5140	4822 158 60511	AM IF Coil 450kHz
5142	4822 157 70302	AM IF Coil 450kHz
5143	4822 242 70665	Ceramic Filter 10.7MHz
5144	4822 242 70665	Ceramic Filter 10.7MHz
5145	4822 242 81362	Discriminator
5150	4822 157 50975	1MH 10%
5170	4822 242 72976	Resonator 7.2MHz
5171	4822 157 50963	2.2µH 20%

6101	4822 130 30621	1N4148
6105	4822 130 83075	HN1V02H
6109	4822 130 82833	1SV228
6122	4822 130 30621	1N4148 -/17
6121	4822 130 30621	1N4148 -/01/10
6123	4822 130 30621	1N4148 -/01/10
6124	4822 130 82833	1SV228
6140	4822 130 30621	1N4148
6154	4822 130 30621	1N4148
6174	4822 130 34174	BZX79-F4V7

7102	5322 130 42136	BC848C -/00/05
7104	5322 130 42136	BC848C -/00/05
7105	4822 130 60093	2SA838B
7120	4822 130 60163	2SC1047
7121	5322 130 42136	BC848C -/00/05
7123	5322 130 42136	BC848C -/00/05
7128	5322 130 42136	BC848C
7140	4822 209 32011	TEA5712T/N1 (RF IC)
7150	5322 209 14482	HEF4096UBT Inverter
7152	5322 130 41983	BC858B -/00/05
7156	4822 130 41344	BC337-40
7157	4822 130 41344	BC337-40
7169	5322 130 41983	BC858B
7170	5322 130 42136	BC848C
7171	5322 130 42136	BC848C
7172	4822 209 30606	MM74HCU04M Inverter
7173	4822 209 31998	LC7218M(Synthesizer)
7174	5322 130 41983	BC858B
7175	4822 130 44197	BC558B
7176	5322 130 42136	BC848C
7177	5322 130 42136	BC848C
7178	5322 130 41983	BC858B
7179	5322 130 42136	BC848C -/00/05

Note : Only the mentiond parts are normal service parts.

RCD BOARD

MISCELLANEOUS

1840	4822 691 20768	RCD-1.2D (NEW)
1901	4822 130 91152	DISPLAY
1911	4822 276 12465	Tact Switch 15V 20mA
1912	4822 276 12465	Tact Switch 15V 20mA
1913	4822 276 12465	Tact Switch 15V 20mA
1914	4822 276 12465	Tact Switch 15V 20mA
1915	4822 276 12465	Tact Switch 15V 20mA
1916	4822 276 12465	Tact Switch 15V 20mA
1917	4822 276 12465	Tact Switch 15V 20mA

2802	4822 122 10179	33pF 5% 50V
2804	4822 126 11715	5.6nF 10% 50V
2805	4822 122 10171	180pF 10% 50V
2806	4822 121 43359	68nF 10% 50V
2811	4822 124 40435	10µF 20% 50V
2812	4822 124 41577	4.7µF 20% 50V
2815	4822 121 51356	180nF 10% 63V
2816	4822 122 31465	270pF 10% 50V
2817	4822 121 42408	220nF 5% 63V
2818	4822 124 41584	100µF 20% 10V
2821	4822 121 43526	47nF 5% 100V
2825	4822 121 51252	470nF 5% 63V
2826	4822 121 43526	47nF 5% 100V
2830	4822 122 33197	1nF 10% 50V
2831	4822 121 43359	68nF 10% 50V
2832	4822 124 40242	1µF 20% 63V
2833	4822 126 11714	4.7nF 20%
2834	4822 126 12147	22nF 10% 25V
2836	4822 126 11311	4.7nF 50V
2837	4822 124 40239	0.47µF 20% 63V
2838	4822 122 10175	2.2nF 10% 50V
2839	5322 126 10181	100nF 25V
2840	5322 126 10181	100nF 25V
2842	4822 124 40244	2.2µF 20% 63V
2843	4822 124 23794	470µF 20% 16V
2844	4822 124 23794	470µF 20% 16V
2851	4822 126 11594	3.30nF 50V
2852	5322 121 42498	680nF 5% 63V
2854	4822 122 10174	1.5nF 10% 50V
2857	4822 122 10177	10nF 20% 25V
2859	4822 121 42408	220nF 5% 63V
2864	4822 124 40242	1µF 20% 63V
2866	4822 126 11594	3.30nF 50V
2867	4822 126 10003	33nF 30% 50V
2868	4822 122 31435	470pF 10% 50V
2874	4822 124 40242	1µF 20% 63V
2876	4822 126 11594	3.30nF 50V
2877	4822 126 10003	33nF 30% 50V

2878	4822 122 31435	470pF 10% 50V
2881	4822 124 40433	47µF 20% 25V
2882	4822 124 40433	47µF 20% 25V
2883	4822 124 23794	470µF 20% 16V
2884	5322 126 10181	100nF 25V
2886	4822 121 51252	470nF 5% 63V
2887	4822 122 10166	22nF 30% 16V
2888	4822 124 40433	47µF 20% 25V
2889	4822 124 40433	47µF 20% 25V
2890	4822 121 51252	470nF 5% 63V
2891	4822 124 40196	220µF 20% 16V
2892	5322 126 10181	100nF 25V
2894	5322 126 10181	100nF 25V
2911	5322 126 10181	100nF 25V
2924	5322 124 41431	22µF 20% 35V

3801	4822 116 52303	8k2 5% 0.5W
3802	4822 050 24702	4k7 1% 0.6W
3803	4822 116 52303	8k2 5% 0.5W
3804	4822 050 21002	1k 1% 0.6W
3805	4822 100 20589	20k 30%lin 0.1W
3806	4822 100 20589	20k 30%lin 0.1W
3807	4822 050 21003	10k 1% 0.6W
3808	4822 050 21804	180k 1% 0.6W
3809	4822 100 20589	20k 30%lin 0.1W
3811	4822 050 24703	47k 1% 0.6W
3812	4822 100 20589	20k 30%lin 0.1W
3813	4822 116 52272	330k 5% 0.5W
3814	4822 050 21504	150k 1% 0.6W
3815	4822 050 21203	12k 1% 0.6W
3816	4822 050 23302	3k3 1% 0.6W
3817	4822 050 21501	150Ω 1% 0.6W
3818	4822 050 21002	1k 1% 0.6W
3819	4822 050 21204	120k 1% 0.6W
3820	4822 050 25603	56k 1% 0.6W
3821	4822 050 21001	100Ω 1% 0.6W
3822	4822 050 21003	10k 1% 0.6W
3823	4822 116 52234	100k 5% 0.5W
3824	4822 050 21003	10k 1% 0.6W
3825	4822 050 22202	2k2 1% 0.6W
3828	4822 050 15602	5k6 1% 0.4W
3829	4822 050 22205	2M2 1% 0.6W
3830	4822 050 22203	22k 1% 0.6W
3831	4822 050 28203	82k 1% 0.6W
3832	4822 116 52244	15k 5% 0.5W
3833	4822 050 22203	22k 1% 0.6W
3834	4822 116 52234	100k 5% 0.5W

3836	4822 050 24702	4k7 1% 0.6W
3837	4822 050 23302	3k3 1% 0.6W
3838	4822 100 20589	20k 30%lin 0.1W
3840	4822 050 24703	47k 1% 0.6W
3841	4822 050 21003	10k 1% 0.6W
3842	4822 050 22201	220Ω 1% 0.6W
3843	4822 050 21003	10k 1% 0.6W
3845	4822 050 21003	10k 1% 0.6W
3846	4822 050 22201	220Ω 1% 0.6W
3847	4822 050 22203	22k 1% 0.6W
3848	4822 050 22203	22k 1% 0.6W
3849	4822 050 22201	220Ω 1% 0.6W
3850	4822 050 22201	220Ω 1% 0.6W
3852	4822 050 21002	1k 1% 0.6W
3853	4822 050 13303	33k 1% 0.4W
3854	4822 116 52264	27k 5% 0.5W
3857	4822 050 22202	2k2 1% 0.6W
3858	4822 050 21203	12k 1% 0.6W
3865	4822 050 24703	47k 1% 0.6W
3866	4822 050 21002	1k 1% 0.6W
3867	4822 116 52224	470Ω 5% 0.5W
3868	4822 050 24702	4k7 1% 0.6W
3869	4822 050 21003	10k 1% 0.6W
3875	4822 050 24703	47k 1% 0.6W
3876	4822 050 21002	1k 1% 0.6W
3877	4822 116 52224	470Ω 5% 0.5W
3878	4822 050 24702	4k7 1% 0.6W
3879	4822 050 21003	10k 1% 0.6W
3881	4822 050 21203	12k 1% 0.6W
3882	4822 050 22203	22k 1% 0.6W
3883	4822 050 21003	10k 1% 0.6W
3884	4822 050 21001	100Ω 1% 0.6W
3886	4822 052 10478	4Ω7 5% 0.33W
3887	4822 050 21002	1k 1% 0.6W
3911	4822 050 21003	10k 1% 0.6W
3912	4822 050 21003	10k 1% 0.6W
3913	4822 050 21003	10k 1% 0.6W
3914	4822 050 21003	10k 1% 0.6W
3915	4822 050 23302	3k3 1% 0.6W
3921	4822 050 23301	330Ω 1% 0.6W
3922	4822 050 24702	4k7 1% 0.6W
3923	4822 050 21502	1k5 1% 0.6W
3924	4822 050 24703	47k 1% 0.6W
3925	4822 050 22203	22k 1% 0.6W
3931	4822 052 10109	10Ω 5% 0.33W
3932	4822 051 10122	1k2 2% 0.25W
3933	4822 051 10182	1k8 2% 0.25W
3934	4822 050 28201	820Ω 1% 0.6W
3961	4822 050 21002	1k 1% 0.6W
3971	4822 050 21002	1k 1% 0.6W

5851	4822 242 73557	Resonator 8.46MHz

6911	4822 130 34174	BZX79-C4V7
6921	4822 130 34173	BZX79-C5V6

7801	4822 209 72814	M51567P
7811	4822 209 72815	M51564P
7841	4822 209 61073	TDA7073/N1
7842	4822 209 61073	TDA7073/N1
7851	4822 209 62371	M5 427AFP
7852	4822 209 70422	MN4264-15
7861	4822 209 32421	TDA1311A/N2
7867	4822 130 40938	TBC548
7877	4822 130 40938	TBC548
7881	4822 130 40938	TBC548
7882	5322 209 72487	LM2940CT-5.0
7901	4822 209 31144	TMP47C421AF
7921	4822 130 40938	TBC548
7923	4822 130 40938	TBC548
7924	4822 130 40941	TBC558
7931	4822 130 41246	BC327-25
7961	4822 130 40938	TBC548
7971	4822 130 40938	TBC548

Note : Only the mentioned parts are normal service parts.

MISCELLANEOUS ELECTRICAL PARTSLIST AND ACCESSORIES

MISCELLANEOUS

1006	4822 272 10225	⚠	Voltage Selector for -/10
1011	4822 240 40197		Loudspeaker 5Ω 3W
1012	4822 240 40197		Loudspeaker 5Ω 3W
1013	4822 280 10222		Piezzo Buzzer for -/17
1014	4822 280 10222		Piezzo Buzzer for -/17
1080	4822 276 12163		Leaf-Switch
1700	4822 691 20819		Tape Deck Assy YSW27
5300	4822 146 31073	⚠	Mains Transformer for -/00/05
5300	4822 146 31149	⚠	Mains Transformer for -/10
5300	4822 146 31077	⚠	Mains Transformer for -/17

ACCESSORIES

4822 736 21743	Instruction For Use for -/00/01/05/10
4822 736 21739	Instruction For Use for -/17

Note : Only the mentioned parts are normal services parts.